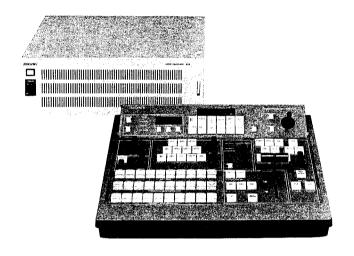
SONY.

VIDEO SWITCHER BVS-3100P



MAINTENANCE MANUAL Volume 1 1st Edition (Revised 3) Serial No.10001 and Higher

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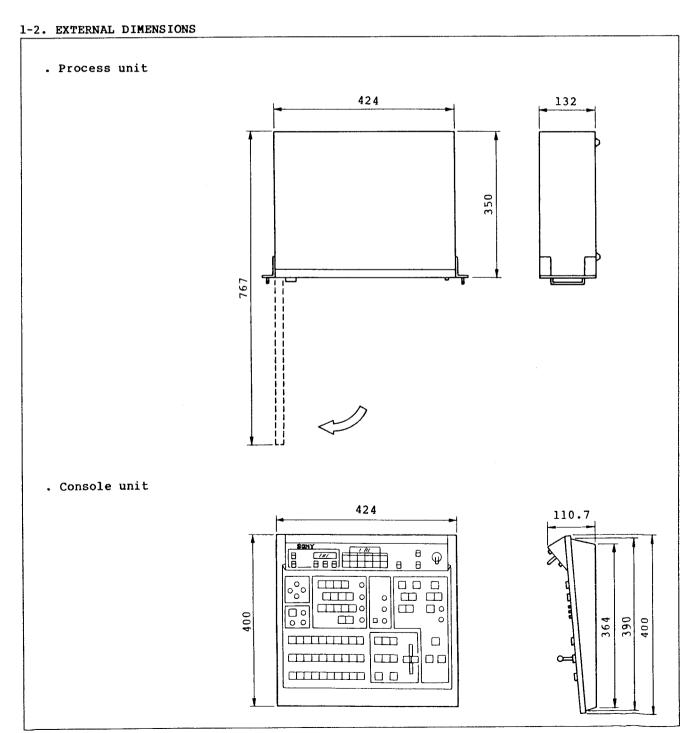
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SECTION 1 INSTALLATION

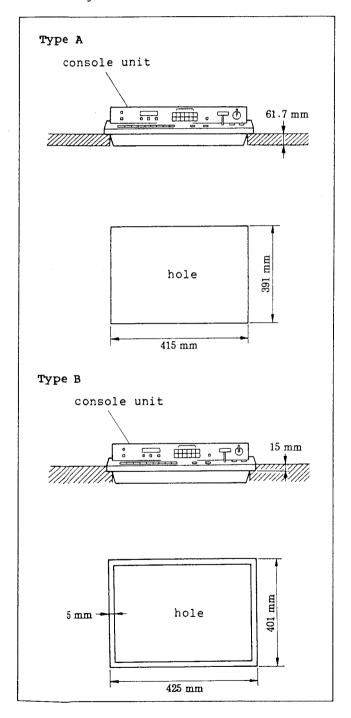
1-1. ENVIRONMENTAL REQUIREMENTS

- . Carefully consider the air circulation of the place in which the unit will be placed to protect against temperature rises within the unit.
- . Since the ambient temperature range for the set during operations is 0°C to 40°C, never place the unit near a heat source.



1-3. SPACE REQUIREMENTS FOR INSTALLATION

. If the unit is to be installed in a console, be sure to cut a hole in the console of the dimensions given in one of the diagrams below.



1-4. POWER SUPPLY

. Since the power supply for the BVS-3100 utilizes a switching regulator (+5V, +9.5V, +15V, and + 9V), the unit can be operated without modification on any power supply in the 220V + 10% range.

1-5. SETTING THE SYSTEM SELECT SWITCHES

. The select switches on all PC boards are described in the pages that follow. Since the select switches should be set according to operational requirements and the type of system desired, be sure to set them accordingly.

1-5-1. SD-19A Board

S9	S10
	S5
S6 S8	s7 🗆
	S4 S2
[
l	

SD-19A board

• S2: BLACK BURST INT/EXT switch

EXT/INT is selected for the black burst signal and fade to black color

INT: The signal generated by the black burst generator within the unit is output.

EXT: Black burst signal received at GEN LOCK IN (on the connector panel) is output.

. S4: SYNC REPLACEMENT ON/OFF switch

This is the switch used to replace
the SYNC burst which is used to
internally generate the blanking
interval of the video signal which is
output from PGM OUT (on the connector
panel).

ON: Replace
OFF: Not replace

black.

Switches S2 and S4 all bear relationships with each other. The way in which they function is shown in the chart below.

			SYNC	REPL	ACEME	NT ON	OFF Sv	witch		
			0	N			OI	F		
			В. В 8	Switch			В. В S	witch		
		E	ХТ	IN	IT	E	XT	IN	(T	
		SET UF	Switch	SET UP	Switch	SET U	Switch	SET UP	Switch	
		ON	OFF	ON	OFF	ON	OFF	ON	OFF	
	COLOR BLACK for PRIMARY BUSES	7.5	0			7.5	0	:		
SET UP (IRE)	COLOR BLACK for FADE TO BLACK	The sai	ne as	7.5 0		The sai	me as	7.5	0	
	BLACK BURST OUT 1/2/3/4	GEN L	OCK IN			GEN L	OCK IN			
SYNC/ BURST	PGM OUT	The sar GEN L	me as OCK IN	The in	ner GEN	The same as PRIMARY VIDEO				
	PVW OUT	The same as PRIMARY VIDEO								

. S5: KEY PROCESSOR ADJ A/B switch This switch is used when making adjustments to the key processor section.

A: during normal operations.

B: during adjustment.

. S6: BKGD COLOR ADJ ON/OFF switch This switch is used when adjusting the chroma for the background color. ON: during adjustment.

OFF: during normal operations.

. S7: EFFECT MATTE COLOR (OVER) ADJ ON/OFF switch This switch is used when adjusting the chroma for the matte color (over). ON: during adjustment. OFF: during normal operations.

. S8: EFFECT MATTE COLOR (UNDER) ADJ ON/OFF switch This switch is used when adjusting the chroma for the matte color (under). ON: during adjustment. OFF: during normal operations.

. S9: FTB ADJ/CONT switch

This switch is used when making adjustments to the fade to black section.

ADJ: during adjustment. CONT: during normal operations.

• Sl0: FTB Y/(R/B) switch This switch is used to select the conditions for replacing the blanking interval for the color difference signals.

Y: Replacement on/off is selected using S4 in the same manner as with the Y signal.

R-B: The blanking interval for the color difference signals is replaced regardless of the setting of S4.

Factory settings

SW NO.	Setting			
S2	INT			
S4	ON			
S5	Α			
S6	OFF			
S7	OFF			
S8	OFF			
S9	CONT			
S10	R/B			

1-5-2. SD-20 Board

S803	
S500	S802
S601	
S602	
S603	
S801 S804 S810 S805 S604 RV802 RV809 RV803 F	O RV810

SD-20 board

. S500: DSK MATTE COLOR ADJ ON/OFF switch

This switch is used to adjust the

DSK color chroma.

ON: during adjustment.

OFF: during normal operations.

- . S601: CHROMA KEY DELAY select switch

 This switch is used to adjust the delay for the chroma key signal.
- . S602: CHROMA KEY DELAY select switch

 This switch is used to adjust the delay for the chroma key signal.
- . S603: CHROMA KEY DELAY select switch

 This switch is used to adjust the delay for the chroma key signal.

 The relationship between the switches and the delay for the chroma key signal.

The relationship between the switches and the delay for the chroma key signal

O: ON

Delay	S601						S602						S603									
nsec	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6
0																					0	0
30									0	0										0		
60									0		0									0		
90									0			0								0		
120									0				0							0		
150									0					0						0		
180									0						0		<u> </u>			0		
210									0							0				0		
240									0								0			0		
270									0								<u> </u>	0		0		
300									0										0	0		
330	0	0					0			0			<u> </u>							0		
360	0	0					0				0									0		
390	0	0					0					0								0		
420	0	0					0						0							0		
450	0	0					0							0						0		
480	0	0					0								0					0		
510	0	0					0									0				0		
530	0	0	0	0				0		0	<u> </u>			<u> </u>						0		
540	0	0					0										0			0		
560	0	0	0	0				0			0									0		
570	0	0					0											0		0		
590	0	0	0	0				0				0								0		
600	0	0					0	ļ											0	0		
620	0	0	0	0				0		ļ	ļ		0							0		
650	0	0	0	0				0	<u> </u>					0						0		
680	0	0	0	0				0	ļ	ļ					0				ļ	0		
710	0	0	0	0			0							ļ		0				0		
740	0	0	0	0			0										0		ļ	0		
770	0	0	0	0	ļ			0		ļ				ļ	_			0		0		
800	0	Ö	0	0				0		_	_			ļ					0	0		
830	0	0	0	0	0	0			-	0										0		
860	0	0	0	0	0	0		ļ	ļ	_	0									0		-
890	10	0	9	0	9	0				-		0			<u> </u>		<u> </u>	ļ <u>.</u>		0		
920	0	0	0	0	0	0		-	_				0		_	ļ		ļ	ļ	0		
950	0	0	0	0	9	0			-				_	0	_	ļ		ļ	ļ	0		
980	0	0	0	0	0	0				-	_	ļ		<u> </u>	0	_		ļ		0		
1010	9	0	0	0	0	0	_	_					ļ	_	ļ	0		ļ		0		
1040	0	0	9	0	0	0		_			_	<u> </u>	_	<u> </u>		<u> </u>	0		ļ	0		
1070	0	0	9	9	0	0	ļ	_	_	ļ	ļ	<u> </u>		-	<u> </u>		<u> </u>	0	_	0		
1100	0	0	0	0	0	\bigcirc		<u> </u>	<u> </u>			<u></u>				<u> </u>	<u> </u>		0	0		

- . S604: CRK, Y-R, and B/RGB select switch

 This is the switch used to select
 the chroma key input.
- . S801: SYNC GEN LOCK SC PHASE 0°/180° switch
- RV802: SYNC GEN LOCK SC PHASE FINE volume control

 These are the switch and the volume control for aligning the SC phi phase of the SYNC GEN LOCK signal of the main unit with the standard signal received from GEN LOCK IN.

 Make rough adjustments (0° to 180°) using S801, and make fine adjustments using S802.
- . S802: CABLE COMP ON/OFF switch

 This is the switch used when compensating for the length of the cable being used. The gain for the input signal (the GEN LOCK signal) rises by about 6dB when this switch is set to on.
- . S803: V BLANKING WIDTH select switch

 The V blanking width can be set to
 19H, 20H, or 21H depending on the
 position this switch is set to.
- . S804: SYNC GEN LOCK H PHASE COARSE switch RV809: SYNC GEN LOCK H PHASE FINE volume control

These are the switch and the volume control for aligning the horizontal SYNC phase of the SYNC GEN LOCK signal of the main unit with the standard signal received from GEN LOCK IN.

Make rough adjustments using S804, and make fine adjustments using S809. Since S804 is a 16 step rotary switch, the phase can be adjusted by approximately 220nsec per step.

• S805: AUX. BLACK BURST H PHASE COARSE switch

RV810: AUX. BLACK BURST H PHASE FINE volume control

These are the switch and the volume control for aligning the horizontal SYNC phase of the standard signal sent to the SONY Digital Multi Effecter DME-450.

Make rough adjustments using S805, and make fine adjustments using S810.

Since S805 is a 16 step rotary switch, the phase can be adjusted by approximately 70nsec per step.

- . S810: AUX. BLACK BURST SC PHASE 0°/180° switch
- RV803: AUX. BLACK BURST SC PHASE FINE volume control

These are the switch and the volume control for aligning the SC phi phase of the standard signal sent to the SONY Digital Multi Effecter DME-450.

Make rough adjustments (0 $^{\circ}$ to 180 $^{\circ}$) using S810, and make fine adjustments using RV803.

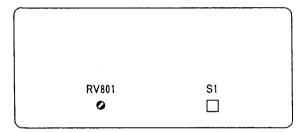
Factory Settings

SW NO.	Se	etting				
S500	OFF					
S601	1	OFF				
	2	OFF				
	3	OFF				
	4	OFF				
	5	OFF				
	6	OFF				
	7	OFF				
	8	OFF				
S602	1	OFF				
	2	OFF				
	3	OFF				
	4	OFF				
	5	OFF				
	6	OFF				
	7	OFF				
	8	OFF				

SW NO.	Se	etting
S603	1	OFF
	2	OFF
	3	OFF
	4	OFF
	5	ON
	6	ON
S604	R	GB
S801	0	
S802	0	FF
S803	20)
S804	0	
S805	0	
S810	0	

1-5-3. DUS-312 Board

DUS-312 board



S1: Input V(B)S/V(B) switch

This is the switch used to seltect the primary input video signal.

V(B)S: selects the video signal with SYNC.

V(B): selects the video signal without SYNC.

RV801: Blanking level bolume control

The blanking interval for the video signal output from PGM OUT (on the connector panel) is replaced when S4 on the SD-19A board is set to on.

Factory setting

SW NO.	Setting
S1	V(B)S

1-6. CONNECTOR INPUT/OUTPUT

1-6-1. Processor

- . VIDEO IN 1 to 8 connectors

 BNC connector; bridge-through output
 terminals.
- . EXT VIDEO IN 2 connector

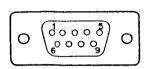
 BNC connector; bridge-through output terminal.
- . DSK EXT VIDEO IN connector BNC connector; terminated in 75 Ohms.
- . CHROMA KEY IN connector

 BNC connector; terminated in 75 Ohms.
- . EXT KEY 1 IN and EXT KEY 2 IN connectors BNC connector; bridge-through output terminal.
- . EXT KEY MASK IN connector

 BNC connector; terminated in 75 Ohms.
- . DSK EXT KEY IN connector BNC connector; terminated in 75 Ohms.
- . BLACK BURST OUT 1, 2, 3, and 4 connectors BNC connector.
- . GEN LOCK IN connector

 BNC connector; bridge-through output terminal.
- . PVW OUT connector BNC connector.
- . PGM OUT 1 and 2 connectors BNC connector.
- . AUX BB OUT connector BNC connector.
- . KEY 1 BUS OUT connector BNC connector.

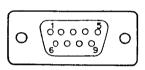
. DME-450/450P DME-450/450P (D-SUB 9 pins)



- EXT VIEW -

PIN NO.	Pin Name	Description
1	GND	Ground
2	RX-A	Data received by BVS-3100/3100P from DME-450/450P(-)
3	TX-B	Data transmitted to DME-450/450P from BVS-3100/3100P(+)
4	GND	Ground
5		
6	GND	Ground
7	RX-B	Data received by BVS-3100/3100P from DME-450/450P (+)
8	TX-A	Data transmitted to DME-450/450P from BVS-3100/3100P(-)
9	GND	Ground

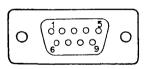
. AUX (D-SUB 9 pins)



- EXT VIEW -

PIN NO.	Pin Name						
1	GND						
2	TX - A						
3	RX-B						
4	GND						
5							
6	GND						
7	TX - B						
8	RX-A						
9	GND						

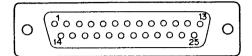
• EDITOR (D-SUB 9 pins)



- EXT VIEW -

PIN NO.	Pin Name	Description
1	GND	Ground
2	TX - A	Data transmitted to Editor from BVS-3100/3100P(-)
3	RX-B	Data received by BVS-3100/3100P from Editor (+)
4	GND	Ground
5		
6	GND	Ground
7	TX-B	Data transmitted to Editor from BVS-3100/3100P(+)
8	RX-A	Data received by BVS-3100/3100P from Editor (-)
9	GND	Ground

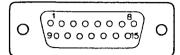
. CONTROL PANEL (D-SUB 25 pins)



- EXT VIEW -

PIN NO.	Pin Name	Description
1	GND	Ground
2	POWER (+9.5 V)	Power supply (+9.5 V)
3	TX - A	Data transmitted to the console from the processor (-)
4	GND	Ground
5	RX-A	Data received by the processor from the console (-)
6		A-141-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
7		and a second sec
8		
9	FIELD PLS-A	Field Pulse (-)
10	GND	Ground
11	SHORT SENSE	Short Sense
12	POWER (GND)	Earth ground
13	POWER (GND)	Earth ground
14	POWER (+9.5 V)	Power supply (+9.5 V)
15	POWER (+9.5 V)	Power supply (+9.5 V)
16	TX-B	Data transmitted to the console from the processor (+)
17	GND	Ground
18	RX-B	Data received by the processor from the console (+)
19		
20		
21		
22	FIELD PLS-B	Field Pulse (+)
23		
24	DTR	Console connection check
25	POWER (GND)	Earth ground

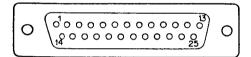
. GPI (D-SUB 15P)



- EXT VIEW -

PIN NO.	Pin Name	Description
1	GPI-FADER	AUTO FADER data
2	GPI (GND)	Ground
3	GPI - DSK	DOWN STREAM KEYER MIX data
4	GPI (GND)	Ground
5	GPI-FTB	FADE TO BLACK data
6	GPI (GND)	Ground
7	GPI-SEL	Irigger fader selected at the console
8		
9		***************************************
10		
11	-	
12		
13		
14		
15	GPI (GND)	Ground

. TALLY (D-SUB 25P)

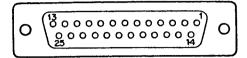


- EXT VIEW -

PIN NO.	Pin Name
1	TALLY-1
2	GND
3	TALLY-2
4	GND
5	TALLY-3
6	GND
7	TALLY-4
8	GND
9	TALLY-5
10	GND
11	TALLY-6
12	GND
13	
14	
15	TALLY-7
16	GND
17	TALLY-8
18	GND
19	
20	
21	
22	
23	
24	
25	

1-6-2. Console Unit

CN1 (D-SUB 25 pins)



- EXT VIEW -

PIN NO.	Pin Name	Description
1	F.G.	Frame ground
2	POWER (+)	Power supply (+)
3	CONS RX-A	Data received by the console from the processor (-)
4	CONS TX-COM	Common ground for transmissions between the console and the processor
5	CONS TX-A	Data transmitted to the processor from the console (-)
6		
7		
8		
9	FIELD PLS-A	Field pulse (-)
10	FIELD PLS-COM	Field pulse common ground
11	SHORT SENSE	Short sense
12	POWER (GND)	Earth ground
13	POWER (GND)	Earth ground
14	POWER (+)	Power supply (+)
15	POWER (+)	Power supply (+)
16	CONS RX-B	Data received by the console from the processor (+)
17	CONS RX-COM	Common ground for transmissions between the processor and the console
18	CONS TX-B	Data transmitted from the console to the processor (+)
19		
20		
21		
22	FRAME PLS-B	Field pulse (+)
23		
24	DTR	Console connection check
25	POWER (GND)	Earth ground

1-7. CONNECTIONS TO THE CONNECTORS

Whenever connecting cables to the connectors on the rear panel during installation or servicing, be sure to use the following connectors or their equivalent.

1-7-1. Process Unit

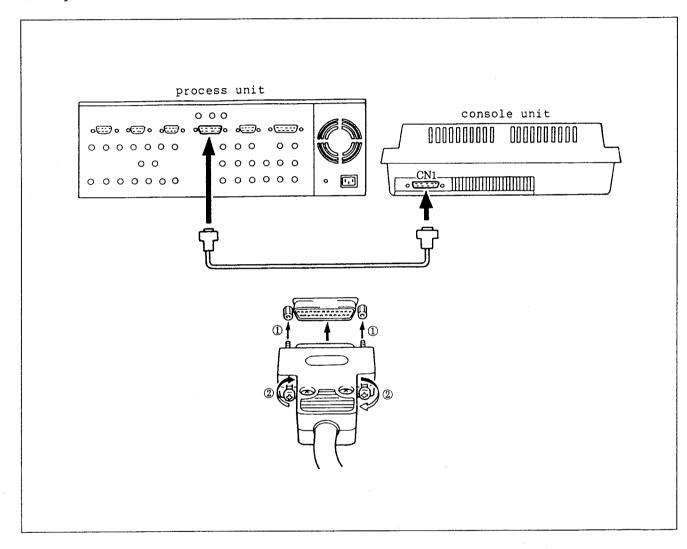
Pannel Display	Connector/Parts No.	
VIDEO IN 1 to 8		
EXT VIDEO IN 1		
EXT VIDEO IN 2		
DSK EXT VIDEO IN		
CHROMA KEY IN		
EXT KEY 1,2 IN	Plug, BNC 1-560-069-11	
EXT KEY MASK IN	11ug, DNC 1-300-003-11	
DSK EXT KEY IN	·	
BLACK BURST OUT 1,2,3,4		
GEN LOCK IN		
PVW OUT		
PVW OUT 1,2		
AUX B.B OUT		
KEY 1 BUS OUT		
EVE	Connector 9P (M) 1-560-651-00	
AUX	JUNCTION SHELL 9P 1-561-749-00	
EDITOR	3011011 SHEED 31 1-301-143-00	
GPI	1-564-592-11 (Accessory)	
CONTROL PANEL	SWC-2505D (Accessory)	
TALLY	1-564-592-11 (Accessory)	

1-7-2. Console Unit

Panel Display	Connector/Parts No.
CN1	SWC-2505D (Accessory)

1-8. CONNECTIONS BETWEEN THE PROCESSOR AND THE CONSOLE

- (1) Plug in the connector.
- (2) Tighten the screws and affix.



1-9. RACK MOUNTING

<Recommended parts>

Slide rails: 2 Accuride Rack Mount Slides, Model C-213-22L or C-203-22; slide length 26 inches.

Brackets: 4 Tokyo Metal Brackets, #816.
<Necessary equipment>

6 inner member installation screws (+B4x5) 8 plate nuts (3 holes each) (SONY part No. 3-651-812-01)

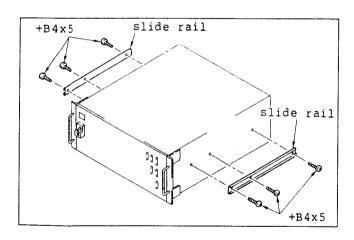
8 bracket installation screws (1) (+B4x8) 8 bracket installation screws (2) (+B4x12)

4 rack mount screws (+RK5x16)

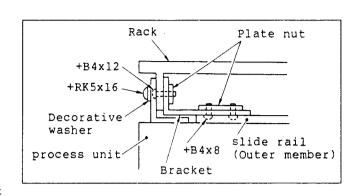
4 rack mount dress washers (SONY part No. 2-297-913-01)

<Rack mount procedure>

 Remove the two screws from the left and right panels, and attach the slide rails with the 6 screws (+B4x5).



- Attach the outer member of each slide rail loosely to the four bracket plate nuts (3 holes each) using the 8 screws (+B4x8).
- 3. Fasten the brackets of the outer member of each slide rail to the rack using the plate nuts and adjust so that total length of the slide rail from the front end to the outside is aligned with the inner members on the unit side.



1-10. ACCESORIES SUPPLIED

- . EX-201 extension board (1)
- . 15 pin connector (1)
- . 25 pin connector (1)
- . 25 pin to 25 pin connector cord (1)
- . Power supply cord (1)
- . Plug holder (1)
- . TIP Switch (3)
- . Operation Guide Book (3)
- . Operation Manual (3)
- . Maintenance Manual Vol. 1 (1)
- . Maintenance Manual Vol. 2 (1)

1-11. OTHER ACCESSORIES (SOLD SEPARATELY)

.SWC-2530D

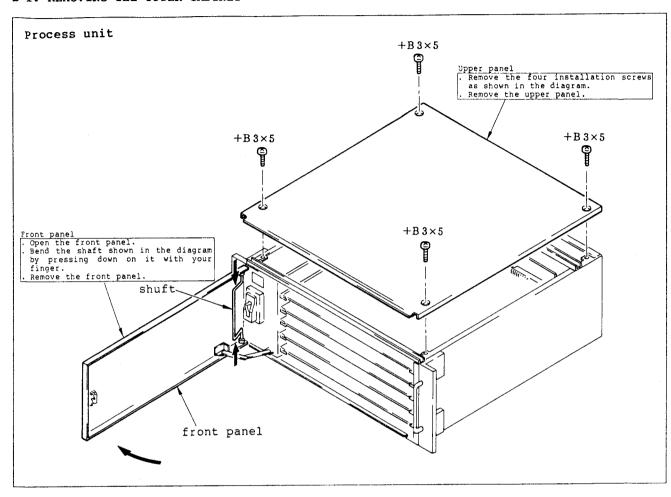
This is the cable used to connect the processor to the console.

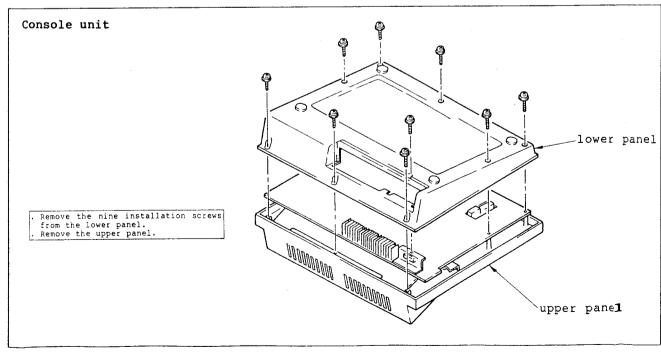
.RMM-3000

This is the rack mount metal to fix editing console for the console unit.

SECTION 2 SERVICE INFORMATION

2-1. REMOVING THE OUTER CABINET





2-2. BOARD LOCATION DIAGRAM

2-2-1. Process Unit

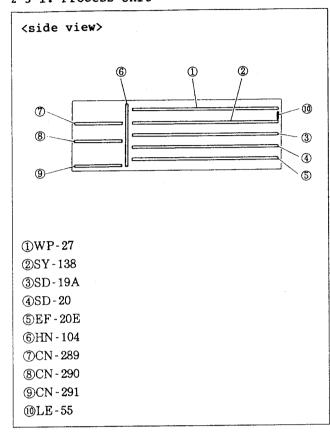
Board NO.	Description
CN-289	CONNECTOR
CN-290	CONNECTOR
CN-291	CONNECTOR
EF-20E	Y (COMPOSITE) SIGNAL PROCESSOR
EX-201	EXTENSION
HN-104	MOTHER
LE-55	LED
SD-19A	SIGNAL GENERATOR FOR SIGNAL PROCESS
SD-20	SYNC GENERATOR, CHROMA KEY, DOWN STREAM KEY SIGNAL
	GENERATOR
SY-138	SYSTEM CONTROL
WP-27	WIPE SIGNAL GENERATOR

2-2-2. Console Unit

Board NO.	Description				
KY-155A	SWITCH BOARD				
KY-157	SUB SWITCH BOARD				
KY-158	SUB SWITCH BOARD				
LP-47	LED BOARD				
LP-48	LED BOARD				
LP-49	LED BOARD				

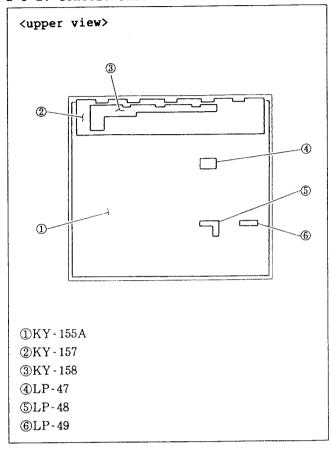
2-3. CIRCUIT CONFIGURATION

2-3-1. Process Unit



SY-138 board SY-154 board

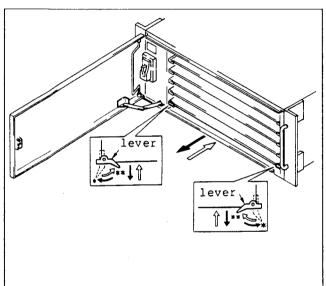
2-3-2. Console Unit



2-4. REMOVING THE BOARDS

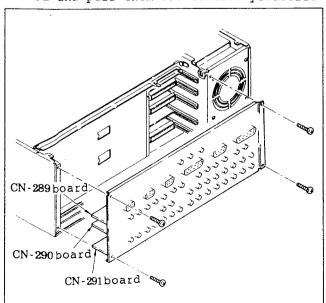
2-4-1. Process Unit

- (1) Removing/Installing the Boards (Cards)
- . The boards can be removed by pushing the board levers in the direction of the * arrow and pulling the door toward yourself.
- . Insert the boards parallel to the board lever guides and the board guides. The boards can be installed by closing the board levers in the direction of the ** arrow while inserting the boards into the holes in the left and right of the unit.



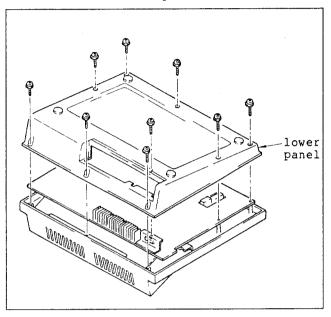
(2) Removing CN-289, CN-290 and CN-291

Remove the screws that have been attached and pull them out towards yourself.

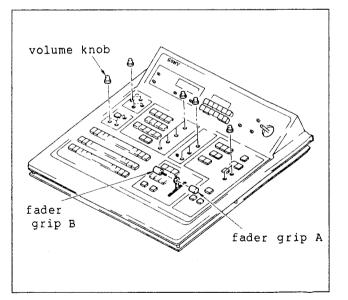


2-4-2. Console unit

(1) Remove the lower panel.



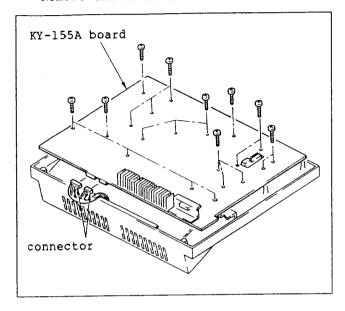
(2) Remove the Fader grip A and B, and sixteen valume knobs.



(3) Removing KY-155A Board

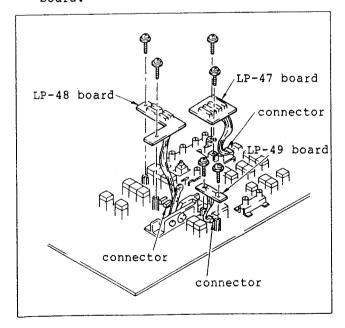
Remove the two connecotrs and the screws that have been attached.

Remove the KY-155A board.

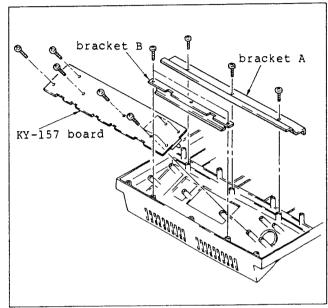


(4) Removing the LP-47, LP-48, LP-49 board Remove connecotrs, and the screws that have been attached.

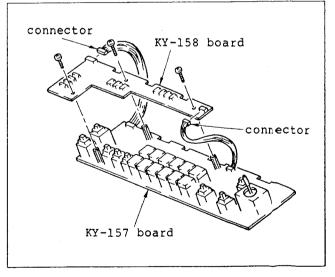
Remove the LP-47, LP-48 and LP-49 board.



(5) Removing KY-157 board Remove the brakets A and B, and screws that have been attached. Remove the KY-157 board.



(6) Removing KY-158 board Remove the two connecotrs and scres that bave been attached. Remove the KY-158 board on the KY-157 board.



2-5. SERVICING PROCEDURE

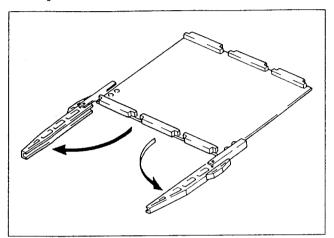
Extension Board; EX-201 Board

Adjusting Card Board; WP-27, SY-138, SD-19A,

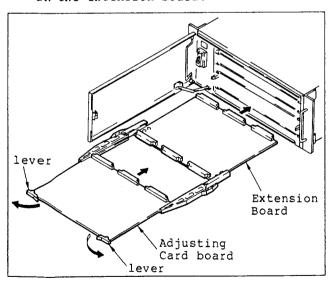
SD-20 and EF-20E

Boards

(1) Open the rails for the extension board.



(2) Push the lever open towards the outside, pull out the adjustment board, and push in the extension board.



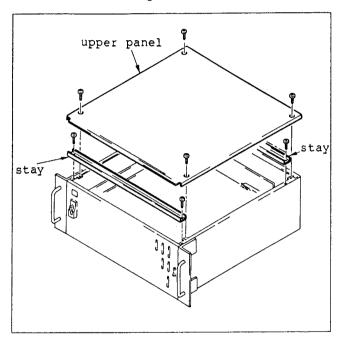
Note) When WP-27 and SY-138 board make the adjustment, connect the WP-27 board and SY-138 board by connect cable of supplied accessory.

2-6. REPLACING MAIN COMPONENTS

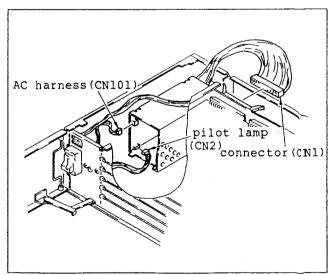
2-6-1. Processor

Removing the power supply

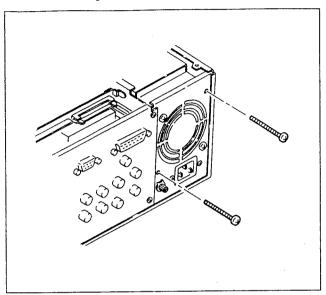
- (1) Remove the upper panel.
- (2) Remove the stays.



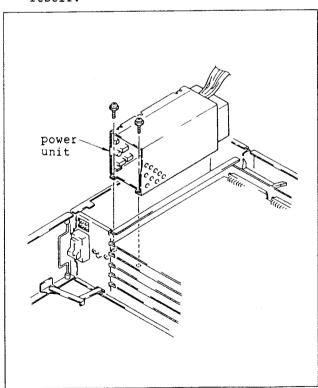
(3) Remove the AC harness(CN101), the pilot lamp(CN205), and the connector (CN1).



(4) Remove the screws holding the fan to the rear panel.

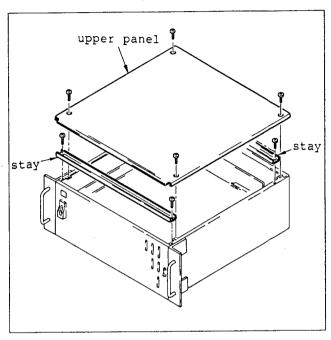


(5) Remove the screws holding the power supply and then remove the power supply itself.

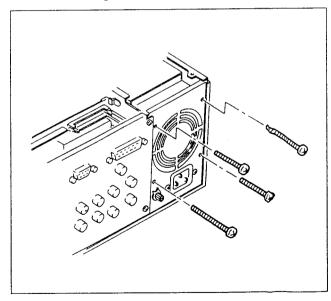


Replacing the fan

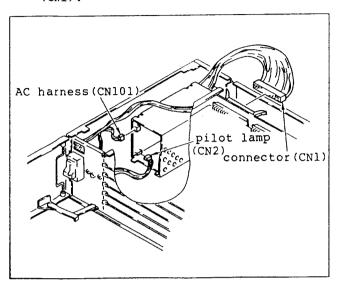
- (1) Remove the upper panel.
- (2) Remove the stay.

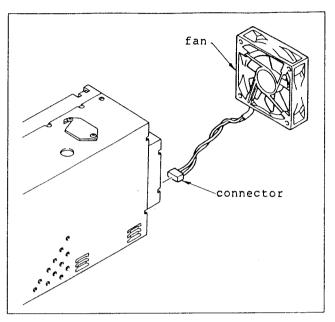


(3) Remove the screws holding the fan to the rear panel.

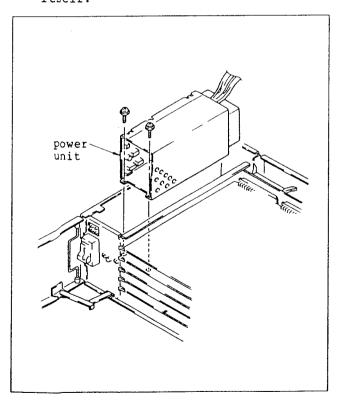


(4) Remove the AC harness (CN101), the (6) Remove the connector and the fan. pilot lamp (CN2) and the connector (CN1).





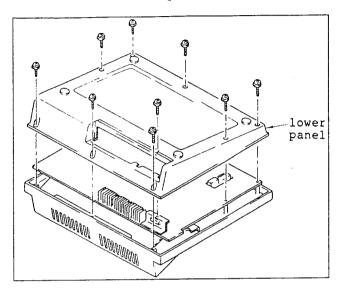
(5) Remove the screws holding the power supply and then remove the power supply itself.



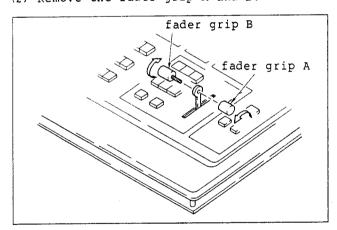
2-6-2. Console

Replacing the fader Assy

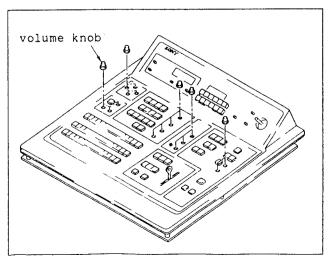
(1) Remove the lower panel.



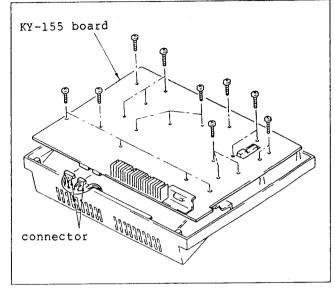
(2) Remove the fader grip A and B.



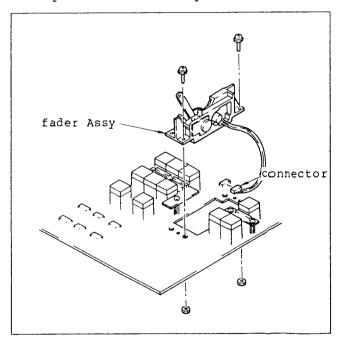
(3) Remove all 15 volume control knobs.



(4) Remove the two connecotrs and the screws holding the board.
Remove the KY-155A board

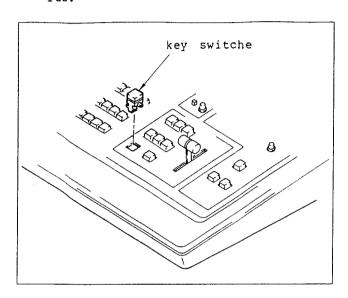


(5) Remove the connector and two screws and replace the fader Assy.

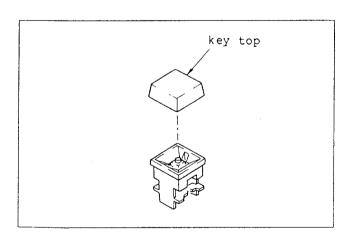


Replacing the key switch

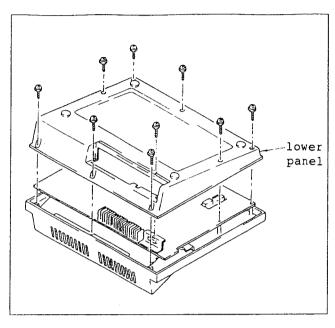
(1) Pull out the key switches and remove (1) Remove the lower panel. its.



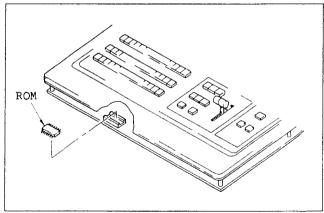
(2) The side of the switches, and pull out remove the key top.



Replacing the ROM



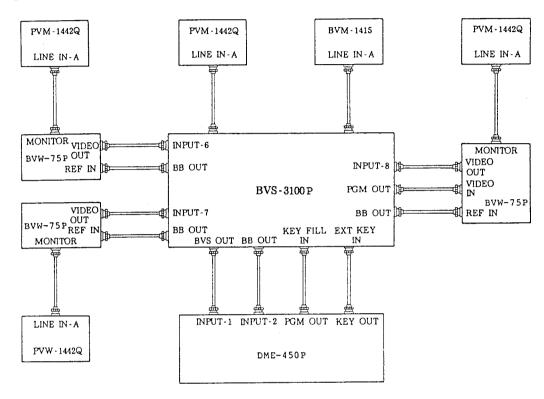
(2) Replace the ROM.



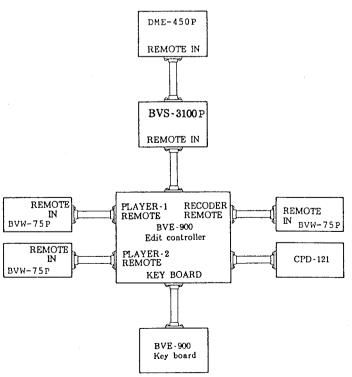
SECTION 3 TECHNICAL INFORMATION

3-1. SYSTEM BLOCK DIAGRAM

3-1-1. Example of an Editing System (Video System)

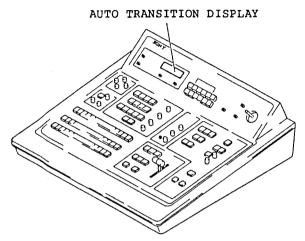


3-1-2. Example of an Editing System (Control System)



3-2. SELF-DIAGNOSTICS/STATUS

If any of the following signal numbers appear in the Auto Transition display this represents the corresponding message given.



the heading There are six items under STATUS. (See the 3-5, 3-6)

(0) "SNAP SHOT"

This function records the status of the control panel of the BVS-3000 Series switcher and allows the information to be retrieved at any time. "Operator's Guide" for proper procedure.

Note: When setting the "DME-#" "Min," be sure to set the display of the WIPE LED to "DME-#".

(1) "XPT assign"

This function allows the user to define the correspondence between the position of the "BUS" switches on the control panel of the BVS-3000 Series switcher and the "VIDEO IN" signal to be input to the processor. See the "Operation Guide" for proper procedure.

Note: A single switch can only be set to correspond to a single input signal. Also, all switches must be redefined whenever a setting change is made.

(2) "TALLY assign"

This function allows the user to define the correspondence between the switches on the control panel of the BVS-3000 Series switcher and the TALLY signals. See the "Operation Manual" for proper procedure.

Note: A single switch can only be set to correspond to a single port. Also, all switches must be redefined whenever a setting change is made.

(3) "setting"

"POSITION center"

BVS-3000 Series switchers, center of wipe patterns as well as DME-450P patterns (location POSITIONER OFF) can be freely set.

- Set "STATUS" to 300.
- (2) Display the wipe patterns with active positioners on the monitor. (Ex. 21/24/23)
- (3) Set the "POSITIONER" switch to "ON" and move the center of the pattern to the desired location using the joystick.
- (4) Set the "POSITIONER" switch "OFF". (Setting complete.) making pattern location settings for the DME-450P, be sure to select the proper DME-450P pattern number (Ex. #1100) in step 2 above.

"DME-450P auto setup"

"KEY" operations are executed on the BVS-3000 Series switcher side when DME-450P patterns are executed from that switcher. For this reason, SOURCE/ FILL/KEY-ON, etc., are set automatically when DME patterns are selected.

The setting parameter at this time can be freely selected.

The parameter specifies whether KEY ON is to be automatically executed when KEY-1/KEY-2/DSK/KEY-SOURCE/KEY-FILL and DME patterns are selected.

- (1) Set "STATUS" to 301.
- Decide which "KEY" processor will execute DME patterns.
- 3 Set the switches/LEDs for SOURCE/FILL/KEY-1/(KEY-2/DISK)/KEY-ON (DISK-ON). If the user does not plan to set the KEY-ON (DSK-ON) LED, only the SOURCE/FILL setting is needed.
- Press the "CUT" switch. (Setting complete.)

Note: When making the "KEY-ON" setting during auto setup, the "TITLE" mode of DME-450P patterns can be turned "ON" by turning the KEY "CLIP" knob fully counterclockwise, or "OFF" by turning it full clockwise. In any case, normal effects can be obtained with the CLIP" knob in the center position.

(6) "status"

The five types of operational status possible for BVS-3000 Series switchers can be displayed in this mode.

"POWER unit emergency"

If status is normal, the LED display reads 600 when set to 6x0.

If there is a malfunction (an abnormal rise in temperature) of the power supply unit in the processor of the BVS-3000 Series switcher, the LED display will read 610 and a buzzer will sound continuously.

Be sure to quickly turn the power switch "OFF" if this display appears.

"memory backup"

If status is normal, the LED display reads 601 when set to 6x1.

If the "SNAP SHOT" memory backup power supply voltage level in the processor of the BVS-3000 Series switcher drops and the data held in memory is lost, the LED display will read 611.

All BVS-3000 Series switchers use a capacitor of high-storage capacity as a backup power supply and data can be stored for 3 to 4 weeks on a 4 hour charge. The capacitor is charged while the BVS-3000 Series switcher power is "ON".

The microcomputer in the processor automatically writes data corresponding to the initial settings to the capacitor if the data held in memory is lost.

"DME-450P control"

If the BVS-3000 Series switcher is operating indenpendently (not in control of a DME-450P), the LED display is 602 when set to 6x2.

Control (remote control) of the DME-450P is possible by setting the "EDITOR ENABLE" switch on the BVS-3000 Series switcher to "ON" and then setting the DME pattern number. The LED display will then read 612.

"asynchronous input video"

If the input video signal selected using the PGM-BUS switch of the BVS-3000 Series switcher is synchronous with respect that switcher (signal genlocked), the LED display reads 603 when set to 6x3.

If the input video signal selected with the PGM-BUS switch is either missing or asynchronous, the LED display will read 613 and the PGM-BUS switch will begin to flicker. If a synchronous input video signal is selected, the switch will stop flickering and the LED display will again return to 603.

"control panel communication"

If the status of the communication line between the control panel and the processor of the BVS-3000 Series switcher is normal, the LED display reads 604 when set to 6x4.

If communication on this line is not possible, the LED display will read 614 and a buzzer will sound continuously. If this occurs, turn the BVS-3000 Series switcher's power off once and then back on again.

(9) "check"

"lamp check"

The lamps of the switches on the control panel of the BVS-3000 Series switcher will be lit one by one and checked when the LED display is set to 900 and then the "CUT" switch is pressed.

The status of the control panel will return to normal after the last lamp test ("DSK MIX") has been completed.

Press the "CUT" switch a second time to halt the lamp test in the middle.

"XPT-flicker"

In this mode, the crosspoint is automatically adjusted when the phase of the input video signal is aligned with that of the BVS-3000 Series switcher. See the "Operation Manual" for proper procedure.

(STATUS)

(#xxx)		(#xx)		(#x)	(memo)
0; SNAP SHOT		Min	0	9; reg #	"cut"; execute
	1;	MR			
1; XPT assign	0	9; input #	0;	(non)	"PGM"; assign
2; TALLY assign	1	8; port #	0;	(non)	"PGM"; assign
3; setting	٠.	Min	٥.	POSITION	"POSITIONER"; "OFF"
s; secting	•		٠,		TOBITIONER, OIT
	τ;	MR		center	
	0;	Min	1;	"DME-450P"	
	1;	MR		auto setup	

·	execute assign				
		"KEY ON"; au			
		"XPT" auto set			
used KEY	FILL	SOURCE			
	EXT VIDEO 1	EFF EXT 1	KEY-1	[KEY ON]	
KEY-1	SW on or EXT	SW on or EFF	(NEXT- TRNS)	(NEXT- TRNS) LED on	
	VIDEO 2 SW on	EXT 1 SW on	SW on		CUT
	EXT VIDEO 1	EFF EXT 1	KEY-2	[KEY ON]	(EFF TRNS) SW
KEY-2	SW on	SW on		(NEXT-	
KE1-2	or	or	(NEXT-	TRNS)	
	EXT	EFF	TRNS)	LED on	
	VIDEO 2	EXT 1	SW on		
	SW on	SW on			
DSK	EXT VIDEO	DSK EXT	DSK PVW	[DSK ON] LED on	
	SW on	SW on	SW on		

6; status	0; NORM	0; POWER-unit with "BUZZER"	
	1; EMERGENCY	emergency &	
		LED flicker	
	0; NORM	1; memory backup	
	1; INITIAL		
	(empty)		
	0; NORM	2; "DME-450P"	
	1; LINK	control	
	0; SYNC (norm)	3; input synchro	
	1; other	center	
	0; NORM	4; conpane <==> mainframe with "BUZZI	ER"
	l; fail	communication &	
		LED flicker	r
		O lamb along the Hamiltonian (a)	
9; check		0; lamp check "cut"; start/st	_
	1; XPT-flicker	c 0; PGM/PST-XPT "cut"; start/st	-
		l; EFF-KEY FILL-XPT "cut"; start/st	top
		2; DSK-KEY FILL-XPT "cut"; start/st	top

SONY

VIDEO SWITCHER

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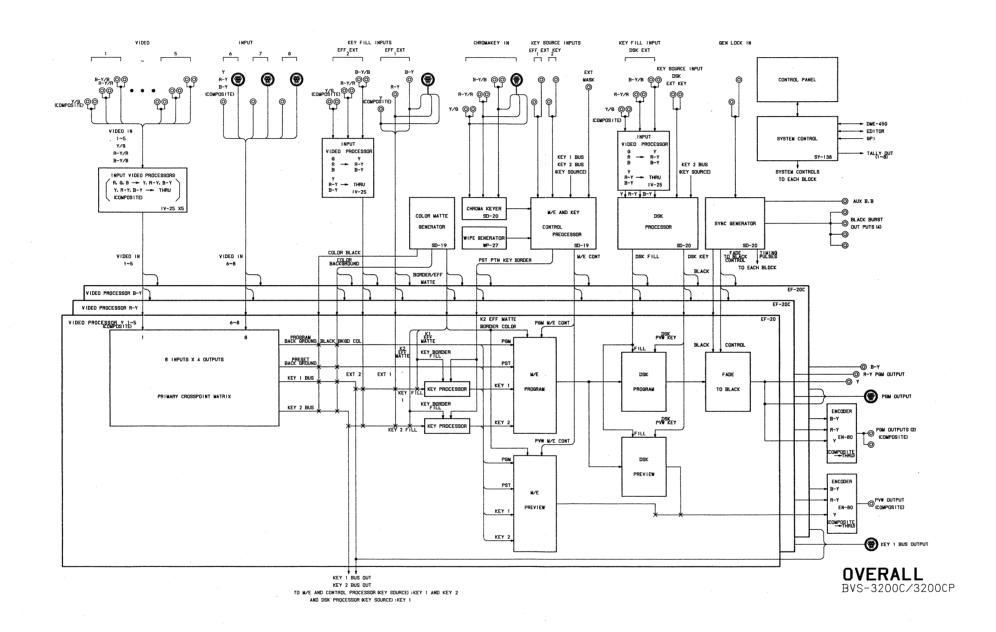
9-3.

SECTION 5 BLOCK DIAGRAMS

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OVERALL

3



5-3

5-4

A

B-BVS3000-0VERALL

В

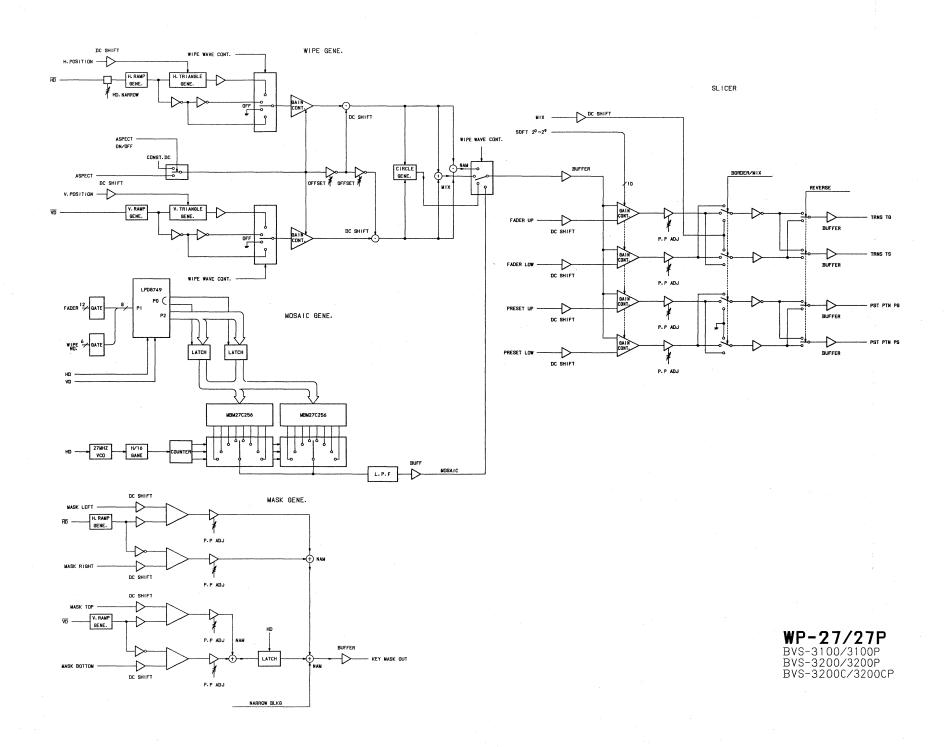
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D

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F

WIPE SIGNAL GENERATOR



5-6

B

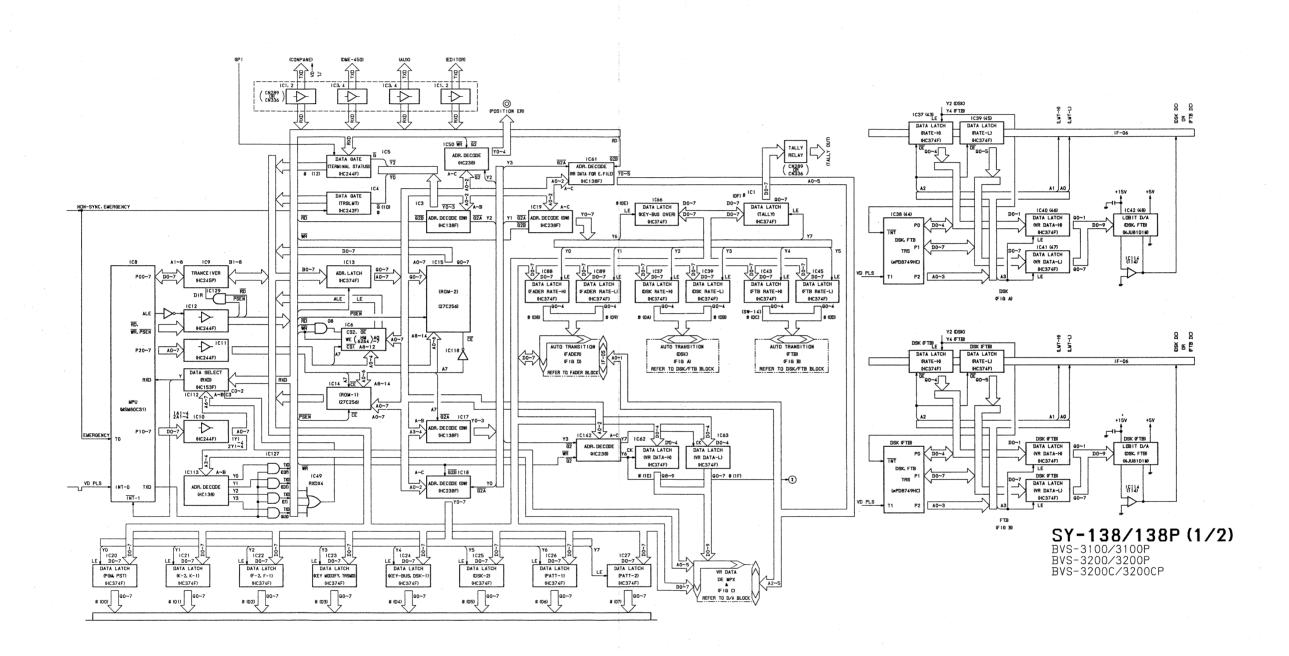
C

D

Ε

B-BVS3000-WP27-BD

SYSTEM CONTROL (1/2)



5-7

5-8

Α

B-BVS3000-SY138-BD#1

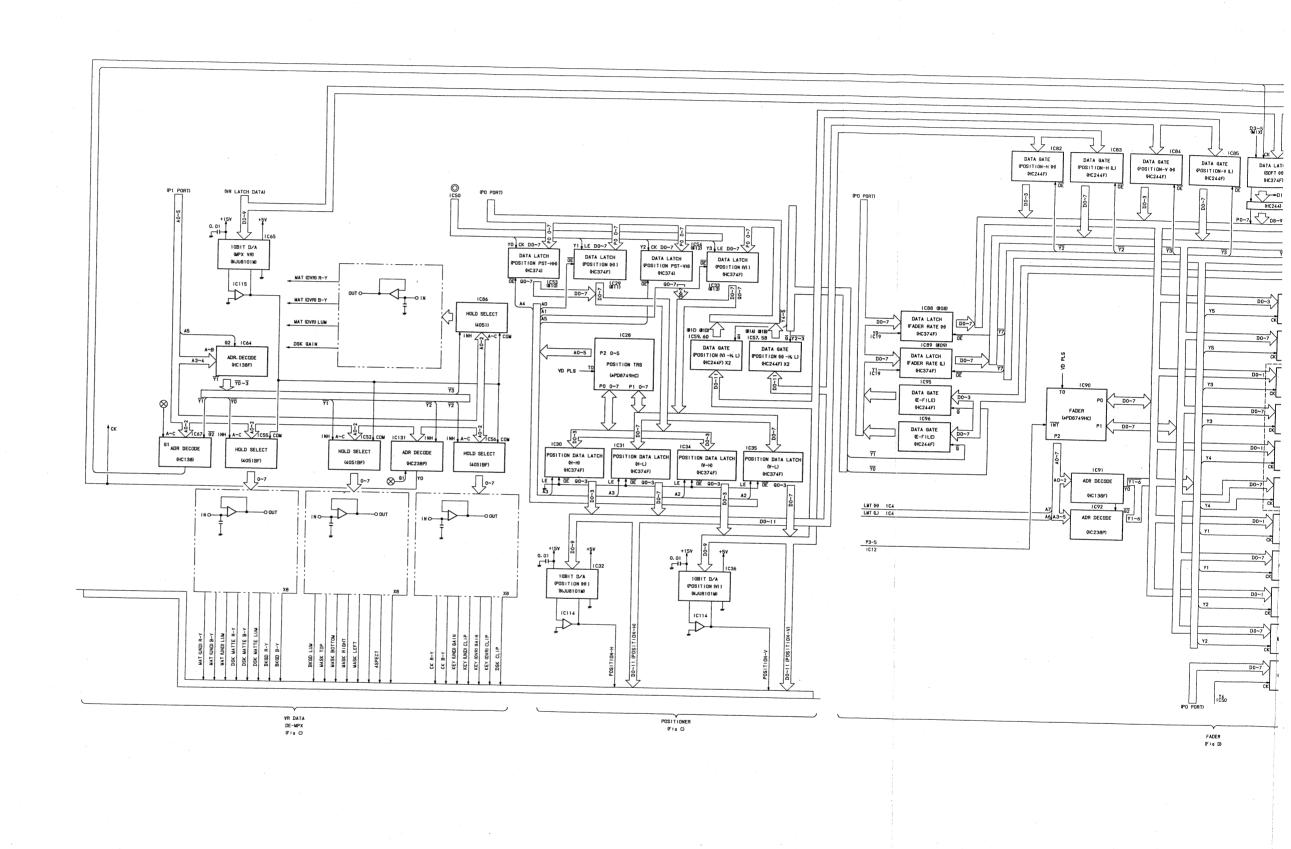
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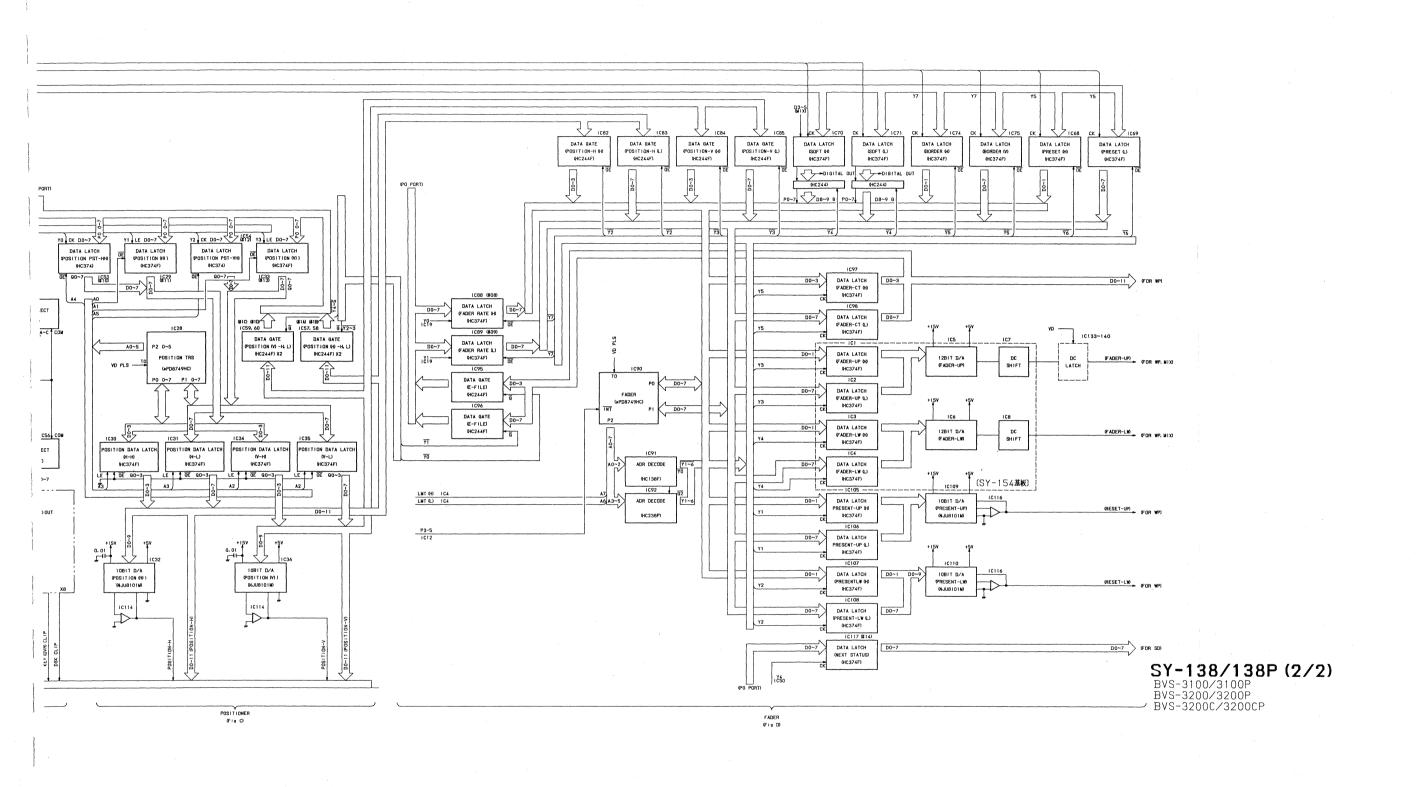
5-9

В

D

5-10

G



2

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C

5-10

5-11

D

E

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G

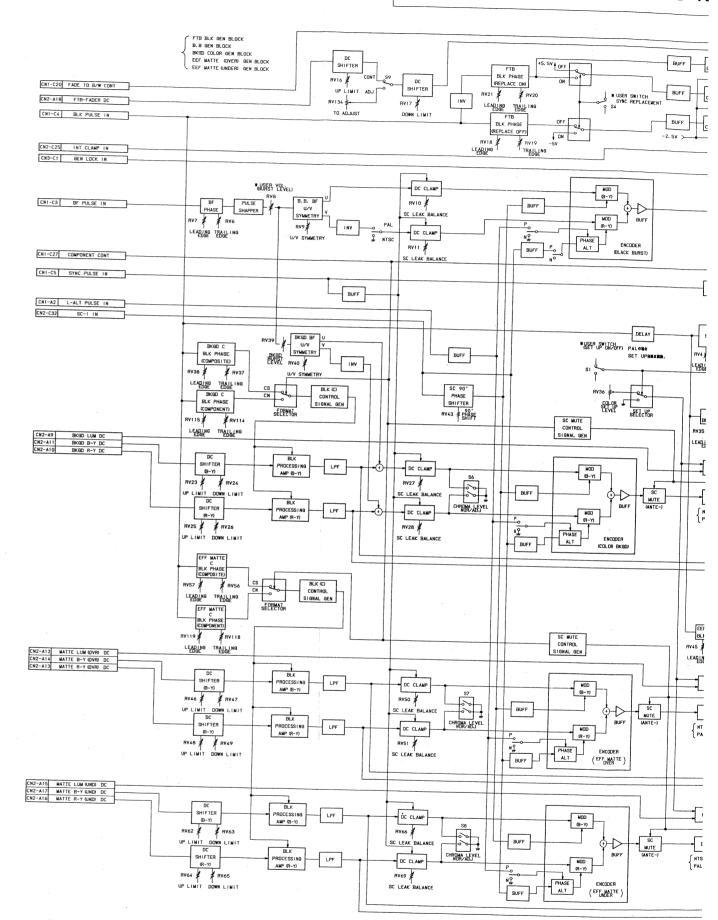
Н

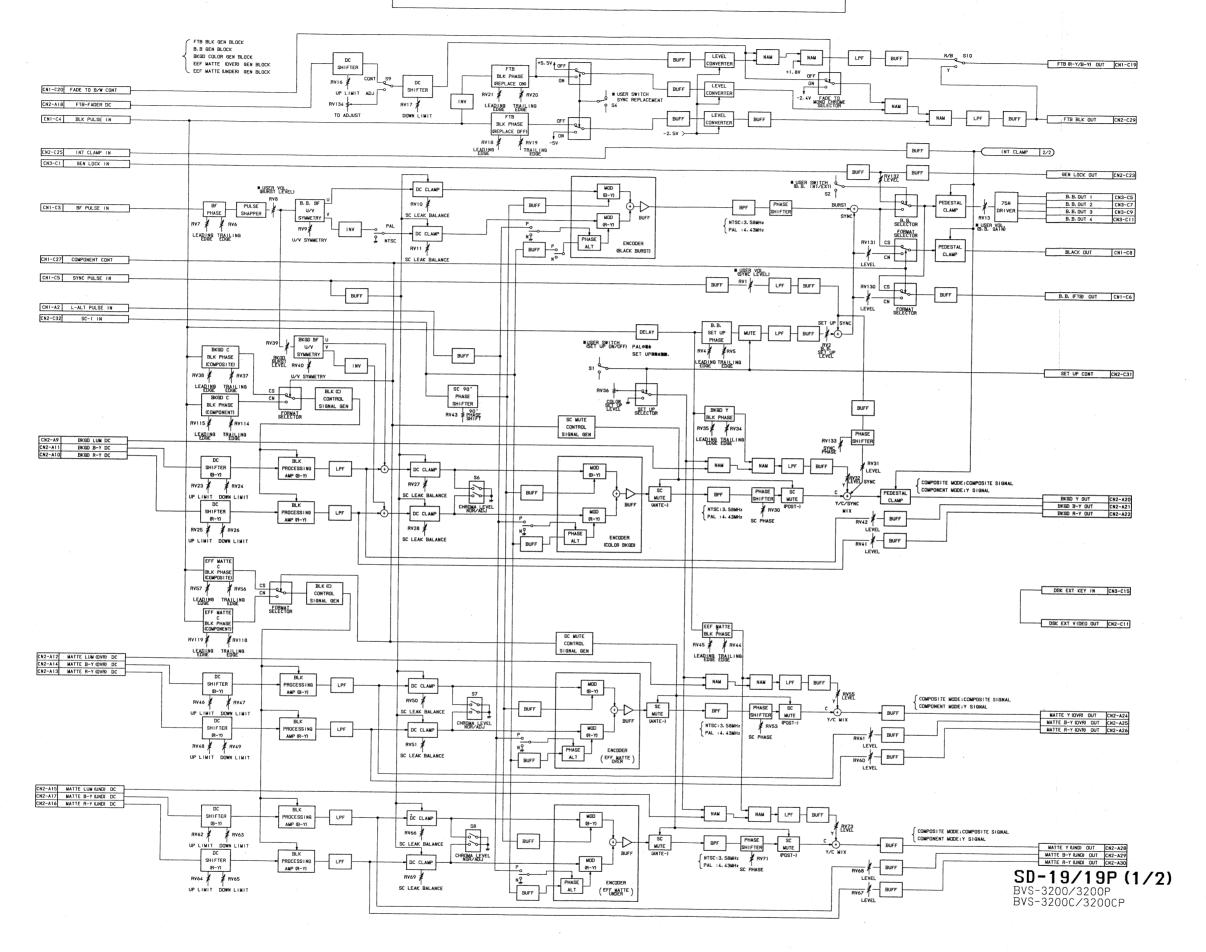
1 . . .

B-BVS3000-SY138-BD#2

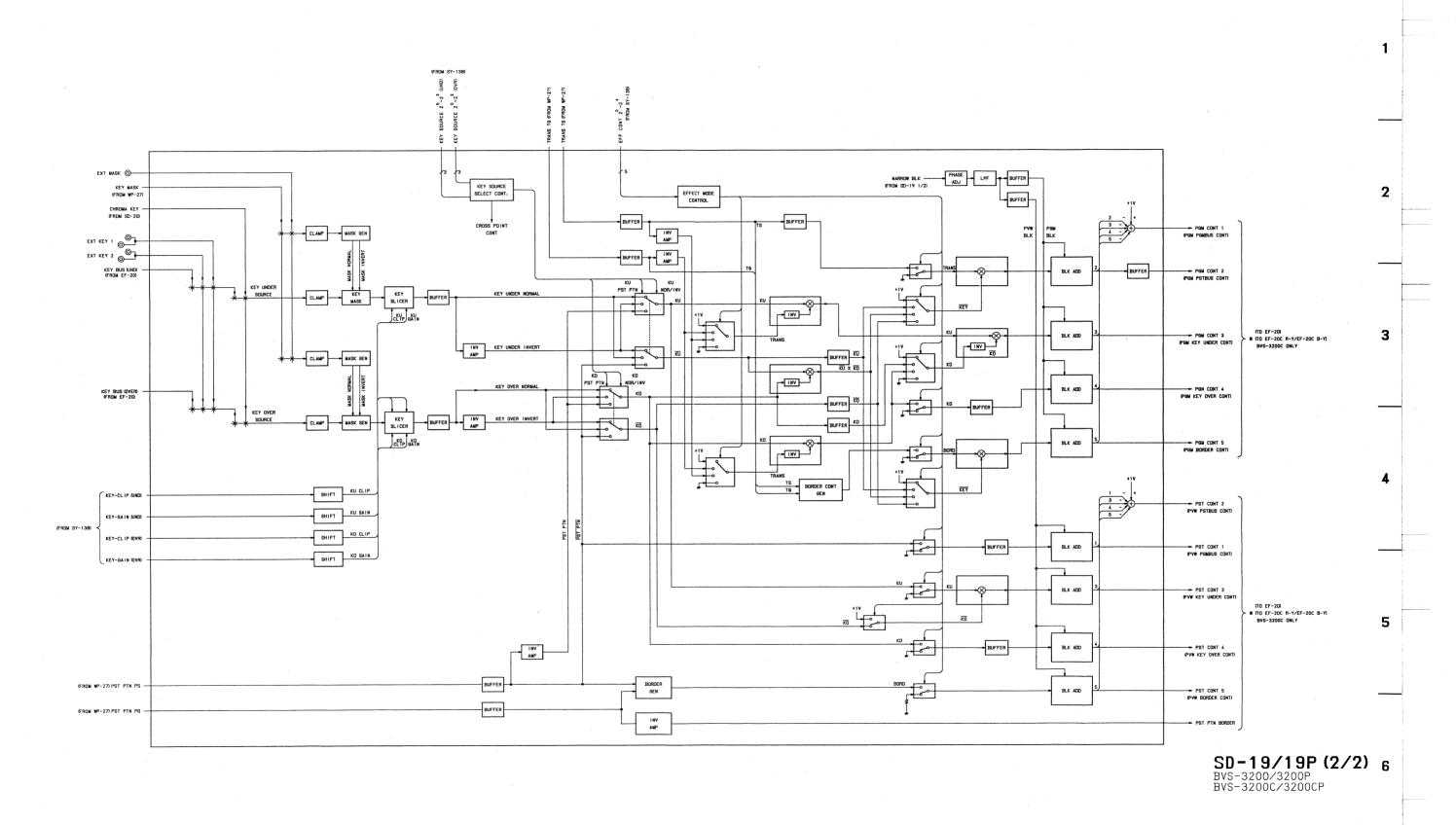
B-BVS3000-SD19-BD#1

SIGNAL GENERATOR FOR SIGNAL PROCESSOR (1/2)





SIGNAL GENERATOR FOR SIGNAL PROCESSOR (2/2)



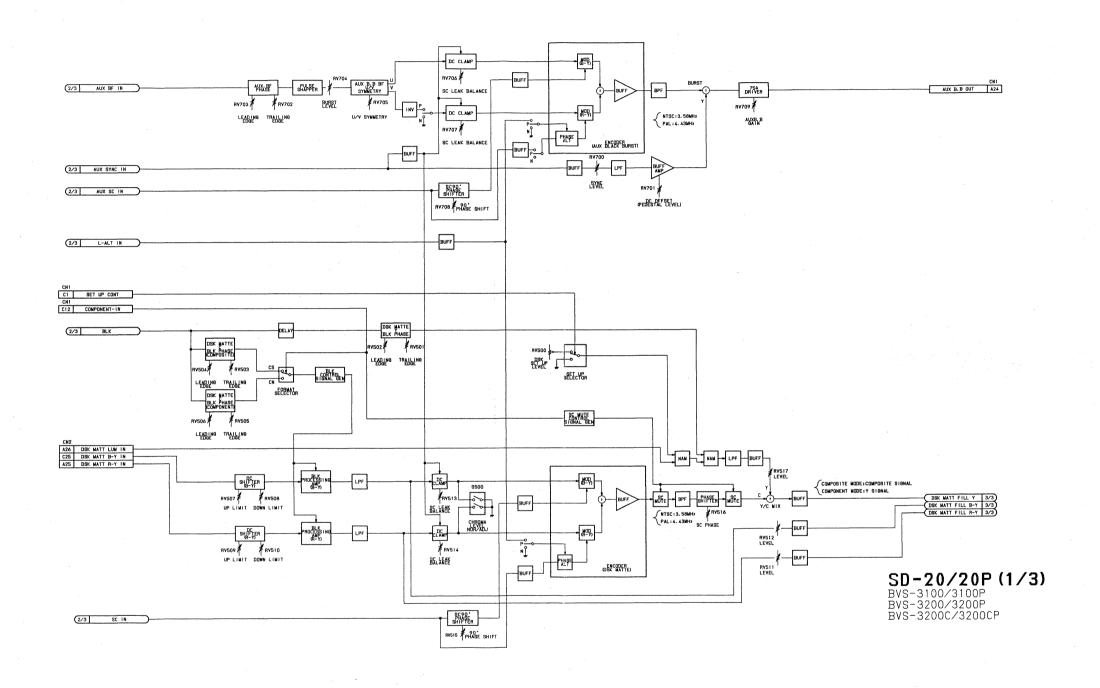
С Ε

5-15

5-16

B-BVS3000-SD19-BD#2

SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR (1/3)



5-18

B-BVS3000-SD20-BD#1

R

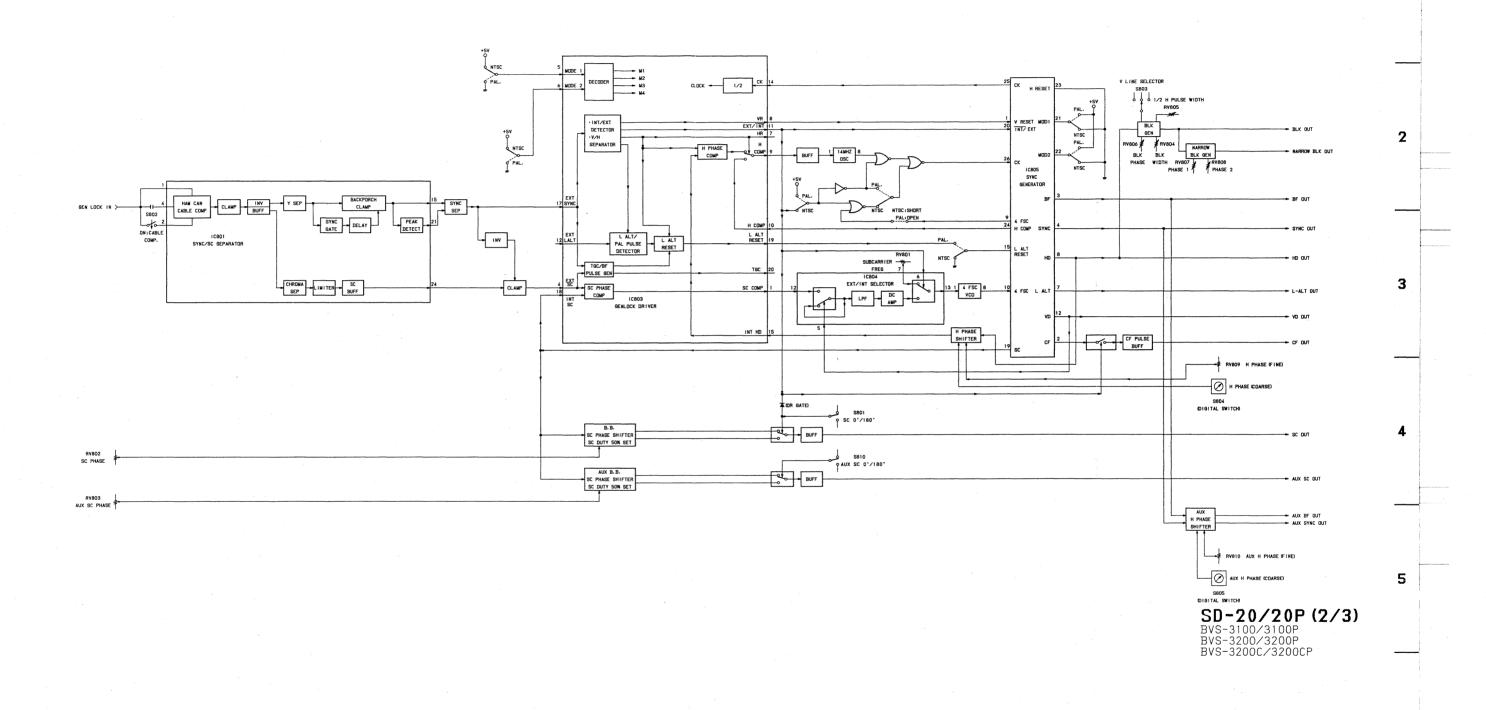
5-17

D

E

F

SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR(2/3)



5-19

В

D

5-20

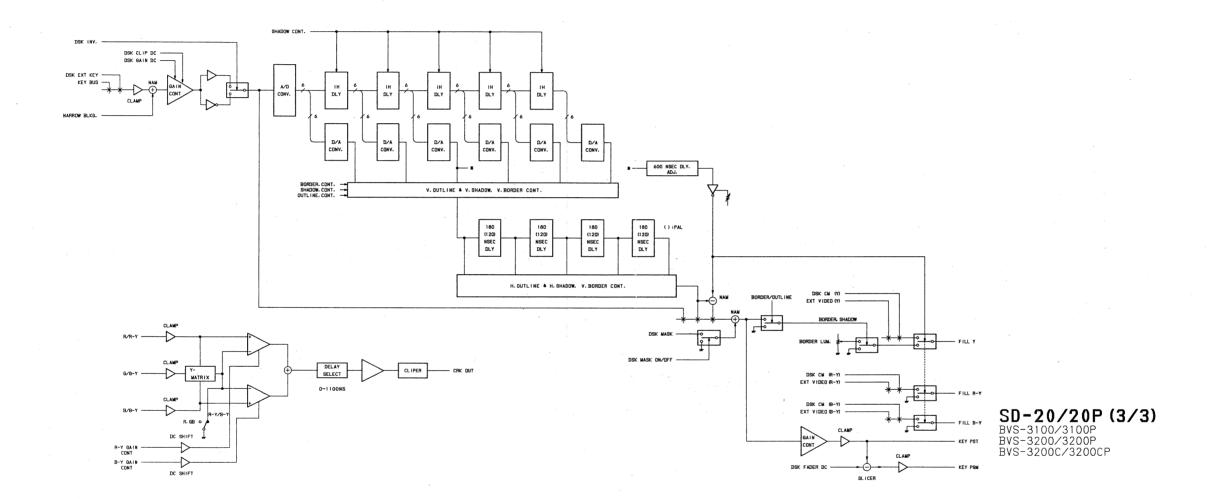
B-BVS3000-SD20-BD#2

6

C

Ε

SYNC GENERATOR, CHROMA KEY, DOWN STREAM KEY SIGNAL GENERATOR (3/3)



5-21

-22

A

В

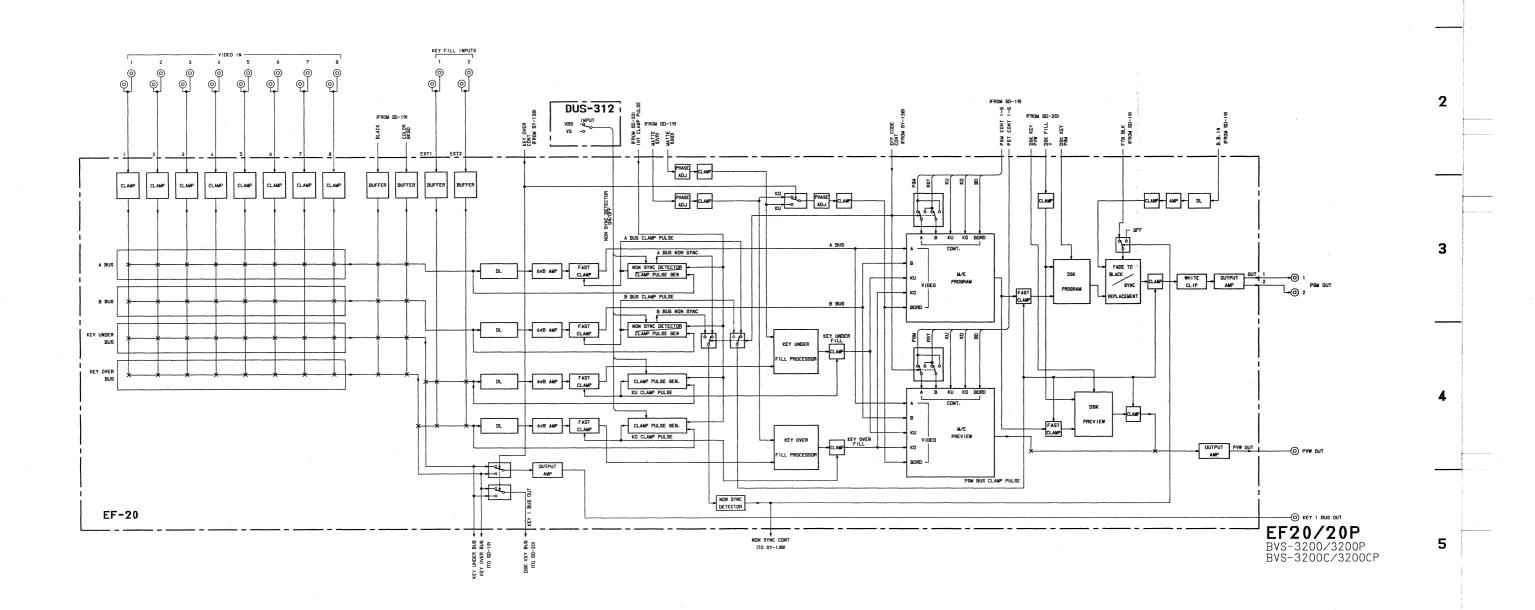
С

D

E

F

Y (COMPOSITE) SIGNAL PROCESSOR



5-23

5-24

B-BVS3000-EF20-BD

В

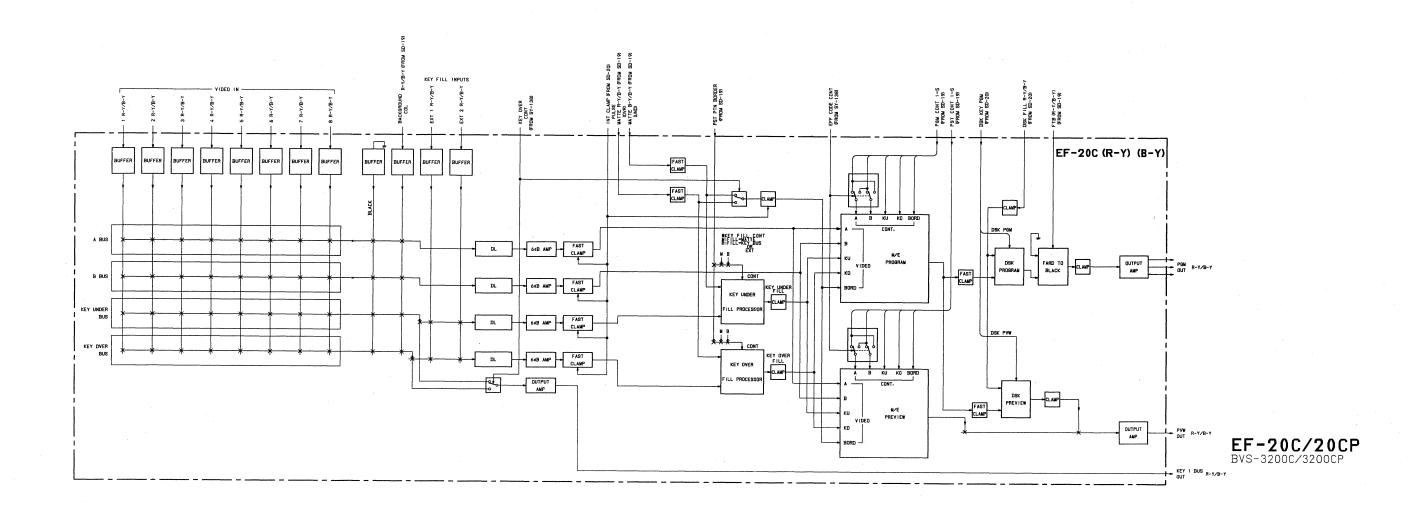
(

1

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B-Y (R-Y) SIGNAL PROCESSOR

3



5-25

C

E

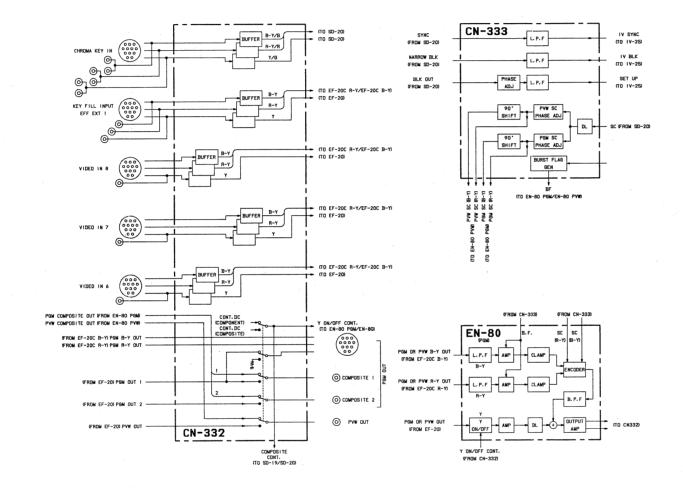
F

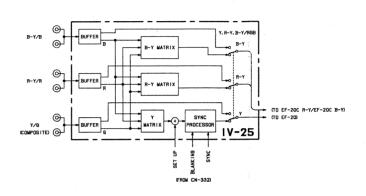
Δ

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CONNECTOR ENCODER MODE SET FOR INPUT VIDEO SIGNAL





CN-332 CN-336 EN-80/80P IV-25/25P BVS-3200/3200P

3

5-27

5-28

B-BVS3000-REAR-BD

CONSOLE

DATA LATCH ONEXT TRS DSP) 0HC374F) VD PLS \rightarrow DO~7 **₩** 00~7 **₩** 00~1 **√** D0~1 D0~7 4 D0~1 WP NO SET SW

CONSOLE BVS-3100/3100P BVS-3200/3200P BVS-3200C/3200CP

Ε С

B-BVS3000-CONSOLE-BD

SECTION 6 SEMICONDUCTOR ELECTRODES

ここに記載されている IC, トランジスタ, ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は、SPARE PARTS の章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

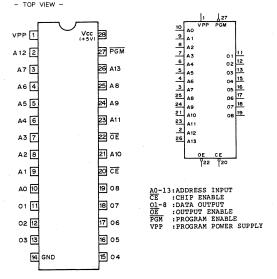
1 C	PAGE	SN74HCOONS 6-12	uPD8749HD	6-20
		SN74HC08NS 6-12		
27C128-25	6-2	SN74HC107NS 6-13		
74F02PC		SN74HC138NS 6-13	TRANSISTOR	PAGE
74F04SJ				
74F112PC		SN74HC153NS 6-13	2SA1162-G	6-21
14111210	0-2	SN74HC157NS 6-13	2SA1462-T1Y34	
AM26LS31CNS	6 - 2	SN74HC163NS 6-13	2SA812-TIM6	
AMORICOOLOUC	0-2	SN74HC174NS 6-13	2SC1623-L6	
AM26LS32ACNS	6-2	SN74HC238NS 6-14	2SC1623-TIL6	0-21
DV 1010		SN74HC244NS 6-14	2301023-1110	0-21
BX-1040		SN74HC32NS 6-14	2SC2757	
BX-1356		SN74HC373NS 6-14	2SC2757-TIT34	
BX1291		SN74HC374NS 6-14	2SD774-3	
BX1333L	6-3	SN74HC4515NT 6-15	2SK508-T1K51	
BX1339A	6-3	SN74HC574NS 6-15	2SK94-TIX3	
		SN74HC86NS 6-15	2SK94-X3	6-21
CX22017	6-3		•	
CX23043		TC4001BF 6-15	FMS2-T-98	6-21
CX23065A		TC4011BF 6-15	FMW2-T-98	
CX7930A		TC4011BF 6-15		V. 21
CX7998			IMZ1T108	6-21
CXK1202S		10101201	***************************************	0 21
CAR12025	0-0	TC4049BF 6-15	UN2224-TX	0 21
11011010000		TC4051BFHB 6-16	UN2224 - IX	0-21
HD14013BFP		TC4052BFHB 6-16		
HM6264LFP-15SL	6-7	TC4053BFHB 6-16	0.1.0.0.0	
		TC4069UBF 6-16	DIODE	PAGE
LM1881N		TC4071BF 6-16		
LM2903M	6 - 7	TC40H000F 6-16	1S1555-S	
LM3046N	6 - 7	TC40H002F 6-16	1S2835-T1	
LM317LZ	6-7	TC4512BF 6-8	1S2837	
LM317T	6 - 7	TC4514BP 6-17	1SS123-T1	6-21
LM6361M	6 - 7	TC4532BP 6-17	1SS226	6-21
	• .	TC4538BF 6-17	1SZ51	6-21
M5109P	6-7	TC4584BF 6-17		
MBM27C256-25		TC5020BP 6-17	GL8D03D	6-21
MBM27C256A-25-X				0 21
MC14042BF		TC7476BP 6-18	LD-101MG-J	6-21
MC14042BF		TC74HC00F 6-12	LD701MG	
		TC74HC08F 6-12	CDIOING	0 21
MC14082BF		TC74HC123F 6-18	RD??ESB	6-21
MC14511BF		TC74HC245AF 6-18	RD??M	
MC14528BF		TC74HC373F 6-14	KU::ii	6-21
MC14557BCP		TC74HC4028F 6-18	TIVIOO	
MC1496P		TC74HC4049F 6-9	TLY123	6-21
MC74HC4049F		TC74HC574F 6-15		
MC74HC4052F	6-9	TC74HC86F 6-15		
MC74HC4053F	6 - 9	TC74HCT7007AF 6-18		
MC74HC4538F	6-10	TL064CNS 6-18		
MSM80C31FVGS-V1K	6-10	TL082CPS 6-18		
	.	TL084CNS 6-18		
NJM13700M	6-10	INOUTOND O ID		
NJU8101M		uPA101G 6-19		
uhontotti	0 11			
RC78L??A	Q - 1.1	uPA103G 6-19		
		uPC648C 6-19		
RC78M??A		uPC814G2 6-19		
RC79L??A		uPD311G2 6-19		
RC79M??FA	6-11	uPD6951C 6-19		
		uPD7004C 6-20		
SM5828P	6-12	uPD8749HC 6-20		

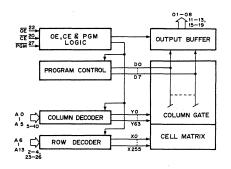
等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

IC

27C128-25 (INTEL) (ACCESS TIME = 250nS) C-MOS 131,072-BIT EPROM - TOP VIEW -



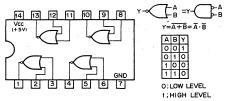


TERMINAL					
MODE	DATA OUTPUT	ĈĒ	ŌE	PGM	VPP
READ	DATA OUT	0	0	1	+5V
OUTPUT DISABLE	HIGH IMPEDANCE	0	1	1	+5V
OUTPUT DISABLE	HIGH IMPEDANCE	0	0	0	+5V
STANDBY	HIGH IMPEDANCE	1	X	Х	+5V
PROGRAM	DATA IN	0 ,	1	0	+21V
PROGRAM VERIFY	DATA OUT	0 /	0	1	+21V
PROGRAM INHIBIT	HIGH IMPEDANCE	1	Х	Х	+21V

0:LOW LEVEL 1:HIGH LEVEL X:DON'T CARE

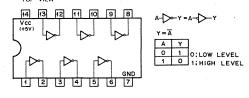




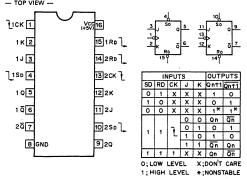


74F04SJ (FSC) FLAT PACKAGE

TTL INVERTER - TOP VIEW -

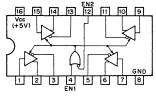


74F112PC (RCA)
TTL J-K FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



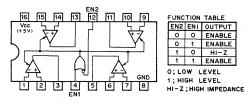
AM26LS31CNS (TI) HIGH SPEED DIFFERENTIAL LINE DRIVER

- TOP VIEW -



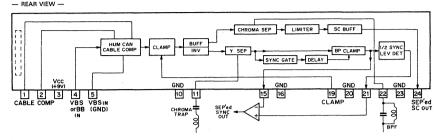
-	FUNC	TION	TABLE								
- 1	EN2	EN1	OUTPUT								
1	0	0	ENABLE								
	O 1 ENABLE										
	1	0	HI-Z								
	1	1	ENABLE								
	1;Н	IGH I	EVEL LEVEL								

AM26LS32ACNS (TI) HIGH SPEED DIFFERENTIAL LINE RECEIVER — TOP VIEW —

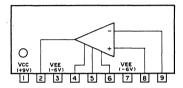


	SENSE	INPUT VOLT
LS32	±200mV	± 7V
LS33	±500mV	±15V

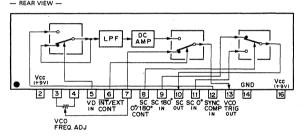
BX1040 (SONY) SYNC SEPARATOR — REAR VIEW —



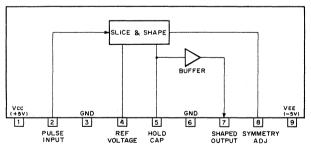
BX1356 (SONY) VIDEO OUTPUT AMPLIFIER — PRINTED SIDE —



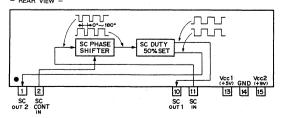
BX1291 (SONY)
APC AMPLIFIER AND SC 0/180° SELECTOR
— REAR VIEW —



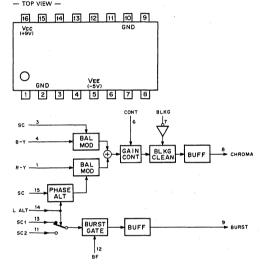
BX1333L (SONY)
PULSE SHAPER
— PRINTED SIDE VIEW —



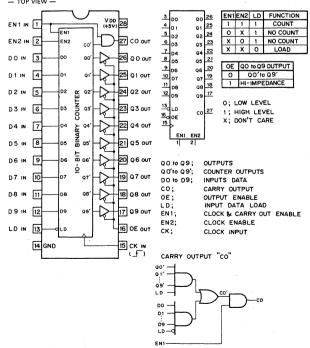
BX1339A (SONY) SC PHASE SHIFTER - REAR VIEW -



BVS-3100/3100P BVS-3200/3200P BVS-3200C/3200CP CX22017 (SONY)
VIDEO SIGNAL PROCESSOR
— TOP VIEW —

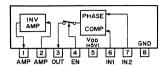


CX23043 (SONY)
N-MOS SYNCHRONOUS 10-BIT BINARY COUNTER
— TOP VIEW —



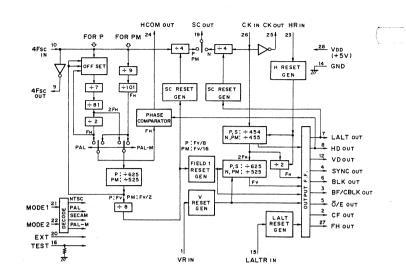
CX23065A (SONY)

N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER - PRINTED SIDE VIEW -

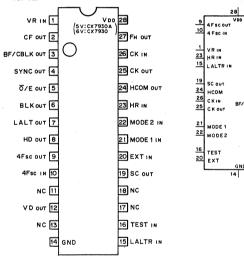




TIMING CHART ΕN HI-Z: HI-IMPEDANCE



CX7930A.(SONY) FLAT PACKAGE C-MOS SYNC GENERATOR (NTSC, PAL-M, PAL, SECAM) - TOP VIEW -



VD out SYNC OU CFOUT FH OUT 27

O/E:ODD/EVEN FIELD

CF:COLOR FRAME PULSE

COM: H COMPARATOR

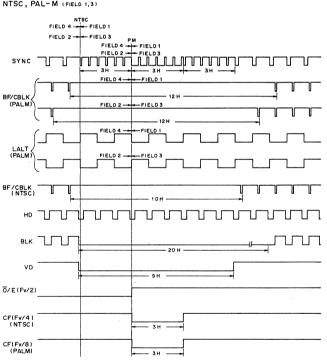
HCOW . H	COMPANATO	`
SYSTEM	4Fsc	CLOCK
NTSC	910 FH	910FH
PAL	1135FH+2Fv	908 FH
PALM	909 FH	910FH
SECAM		908 FH

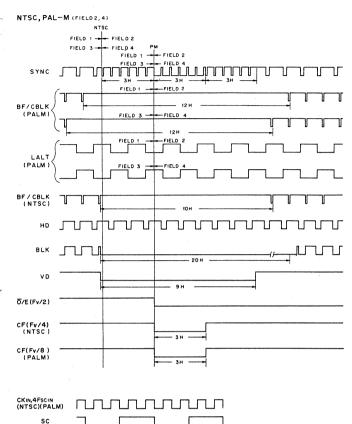
INP	UTS	SYSTEM	IN	PUTS	FUNCTION
MODE 1	MODE 2	SISIEM	EXT	TEST	FUNCTION
0	0	NTSC	0	0	INTERNAL
0	1	SECAM	0	1	INVALID
1	0	PALM	1	0	EXT
1	1	PAL	1	1	TEST

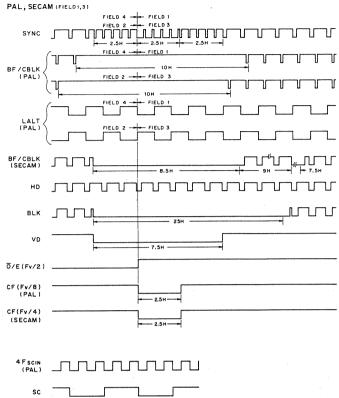
O ; LOW LEVEL (GND)
1 ; HIGH LEVEL (VDD)

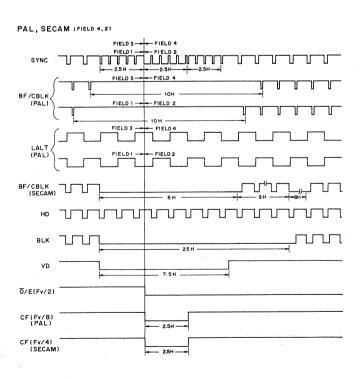
TEST "O": OPEN (INTERNALLY) PULLED DOWN)

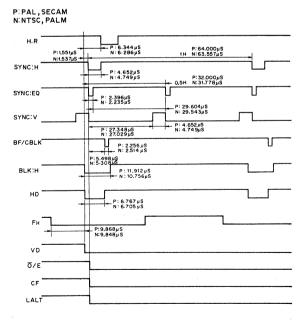
NTSC , PAL-M (FIELD 1,3)



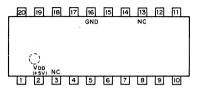






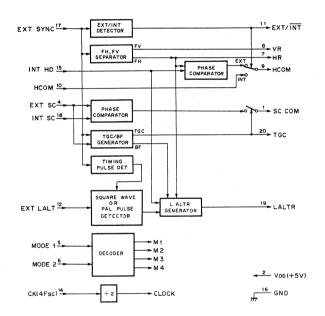


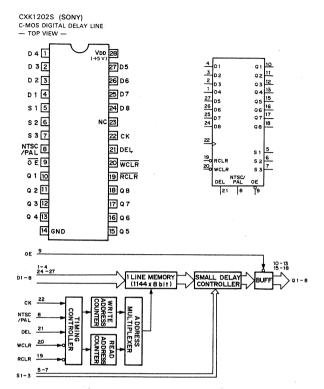
CX7998 (SONY) FLAT PACKAGE C-MOS GENLOCK DRIVER — TOP VIEW —



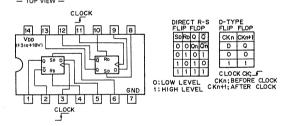
	PUTS	EXT LOCK MODE					
MODE 1	MODE 2		XI LUCK MODE				
0	0	M 1	PAL:VBS				
1	0	M 2	PAL-M:VBS				
0		мз	PAL:VS/SC/LALT				
	'	M S	SECAM:VS/SC/LALT				
			NTSC:VBS				
1	1	M 4	NTSC: VS/SC				
1	1	1	PAL-M:VS/SC/LALT				

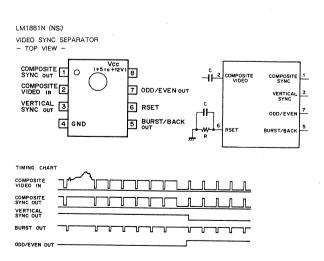
O; LOW LEVEL





HD14013BFP (HITACHI) FLAT PACKAGE C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET — TOP VIEW —



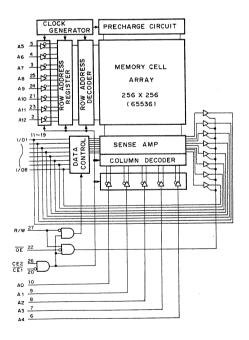


HM626LFP-15SL (HITACHI) (ACCESS TIME=150nS) FLAT PACKAGE C-MOS 8192 WORDX8-BIT STATIC RAM - TOP VIEW -

1 NC VDD 28 10 9 8 7 6 5 4 3 25 24 21 23 2 A12 IN 2 27 R/W IN A7 IN 3 26 CE2 IN A6 IN 4 A5 IN 5 24 Δ9 ιν A 8 A 9 A 10 A 1 1 23 22 OE IN A2 IN 8 21 A10 IN A1 IN 9 20 CET IN AO-12 ; ADDRESS INPUTS
CE1,2 ; CHIP ENABLE INPUTS
OE ; OUTPUT ENABLE INPUT
I/O1-8 ; DATA INPUTS/OUTPUTS
R/W ; READ/WRITE INPUT AO IN 10 19 1/08 1/01 [1] 18 1/07 17 1/06 1/02 12 1/03 13 16 1/05 14 GND 15 1/04

MODE	CE1	CE2	ŌE.	R/W	1/01~8
READ	0	1	0	1	DATA
WRITE	0	1	х	0	DATA
OUTPUT DESELECT	0	1	1	1	HI-Z
STANDBY	1	х	×	x	HI-Z
STANUBI	х	0	x	×	HI-Z

O; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

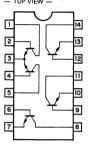


LM2903M (RAYTHEON) FLAT PACKAGE

VOLTAGE COMPARATOR - TOP VIEW -

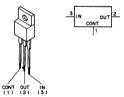


LM3046N (NSC)
NPN TRANSISTOR ARRAY
— TOP VIEW —



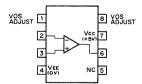
LM317LZ (NSC) LM317T (NSC)

3-TERMINAL ADJUSTABLE REGULATOR

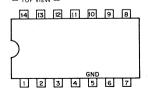


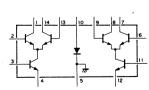
LM6361M (NEC)

HIGH SPEED OPERATIONAL AMPLIFIER - TOP VIEW -



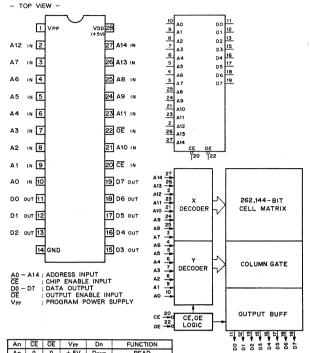
M5109P (MITSUBISHI) DIFFERENTIAL AMPLIFIER — TOP VIEW —





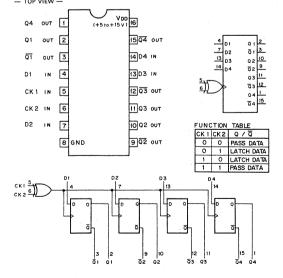
BVS-3100/3100P BVS-3200/3200P BVS-3200C/3200CP

MBM27C256-25 (FUJITSU) (ACCESS TIME=250nS) MBM27C256-25-X (FUJITSU) (ACCES TIME=250nS) C-MOS 256K (32Kx8)-BIT ERASABLE PROM WITH 3-STATE OUTPUTS

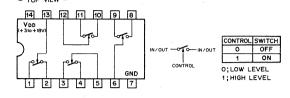


| An | 0 | 0 | +5V | Dout | READ | | READ

MC14042BF (MOTOROLA) FLAT PACKAGE TC4042BF (TOSHIBA) FLAT PACKAGE C-MOS D-TYPE LATCH — TOP VIEW —



MC14066BF (MOTOROLA) FLAT PACKAGE C-MOS BILATERAL ANALOG SWITCH — TOP VIEW —



MC14082BF (MOTOROLA) FLAT PACKAGE

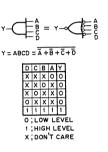


14 13 12 11 10 9 8 NC

3 4

GND

5 6 7

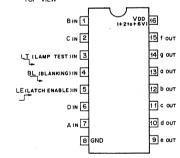


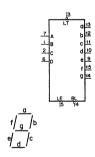
MC14511BF (MOTOROLA) FLAT PACKAGE TC4512BF (TOSIBA)

TC4512BF (TOSIBA)

C-MOS BCD TO 7 SEGMENT LATCH/DECODER/DRIVER

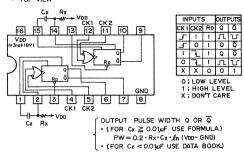
- TOP VIEW -



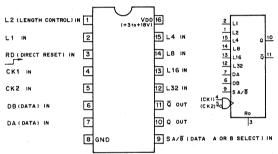


<u> </u>		11	IPI	JTS	3		Г	-	οū	TP	UΤ	s	_	DISPLAY	-
LE	BL	LT	D	С	₿	Α	a	Ь	c	d	e	f	g	DISPLAI	
X	Х	0	X	X	X	X	1	1	1	1	1	1	1	œ	
X	0	1	X	X	X	X	0	0	0	0	0	0	0	BLANK	
0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	
0	1	1	0	0	0	1	0	1	1	0	0	0	0		
0	1	1	0	0	1	0	1	1	0	1	1	0	1	ù	
0	1	1	0	0	1	1	1	1	1	1	0	0	1	Œ	
0	1	1	0	1	0	0	0	1	1	0	0	1	1	Ŧ	
0	1	1	0	1	0	1	1	0	1	1	0	1	1	ijΩ	*
0	1	1	0	1	1	0	0	0	1	1	1	1	1	w	
0	1	1	0	1	1	1	1	1	1	0	0	0	0	Ŧ	o;Low
0	1	1	1	0	0	0	1	1	1	1	1	1	1	8	1;H1GH
0	1	1	1	0	0	1	1	1	1	0	0	1	1	9	X;LOW OR HIGH
0	1	1	1	0	1	0	0	0	0	0	0	0	0	BLANK	+: DEPEND UPON THE BCD CODE
0	1	1	1	0	1	1	0	0	0	0	0	0	0	BLANK	PREVIOUSLY APPLIED WHEN LE = 0.
0	1	1	1	1	0	0		0	0	0	0	0	0	BLANK	
0	1	1	1	1	0	1	0	0	0	0	0	0	0	BLANK	
0	1	1	1	1	1	0	0	0	0	0	0	0	0	BLANK	
0	1	1	1	1	1	1		0	0	_	0	0	0	BLANK	
1	1	1	X	X	X	×				*				*	

MC14528BF (MOTOROLA) FLAT PACKAGE C-MOS RETRIGGERABLE/RESETTABLE MMV - TOP VIEW -



MC14557BCP (MOTOROLA) C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER — TOP VIEW —



LENGTH SELECT TRUTH TABLE

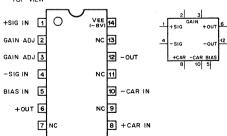
L32	L16	L8	L4	L2	L1	REGISTER LENGTH
0	0	0	0	0	0	1 - BIT
0	0	0	0	0	1	2 - BIT
0	0	0	0	1	0	3 - BIT
0	0	0	0	1	1	4 - BIT
0	0	0	1	0	0	5-BIT
	1					
1	1	1	1	0	0	61 - BIT
T	1	1	1	0	1	62 - BIT
1	1	-1	1	1	0	63 - BIT
1	1	1	1	1	1	64 - BIT

	NPL	OUTPUT		
RD	SA/E	CK1	CK2	0
0	0	5	0	DB
0	1	5	0	DA
0	0	1	ام	DB
0	1	1	ام	DA
1	х	х	Х	0

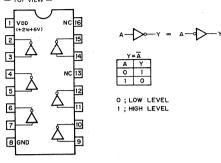
O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

MC1496P (MOTOROLA)

BALANCED MODULATOR/DEMODULATOR - TOP VIEW -



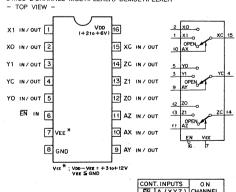
MC74HC4049F (TOSHIBA)
TC74HC4049F (TOSHIBA) FLAT PACKAGE
C-MOS HEX BUFFER/CONVERTER (INVERTING)



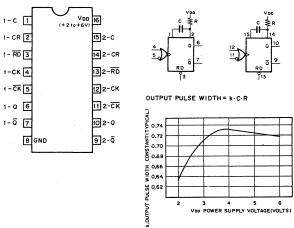
MC74HC4052F (MOTOROLA) FLAT PACKAGE C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -

12 X 0 (+ 21 0+6V) 16 YO IN/OUT I Y2 IN/OUT 2 15 X2 IN/OUT YC IN/OUT 3 14 X1 IN/OUT Y3 IN/OUT 4 13 XC IN/OUT Y1 IN/OUT 5 12 XO IN/0UT EN IN 6 11 X3 IN/OUT 7 VEE 10 A IN BGND 9 B IN CONTROL INPUTS EN B A "ON" VEE * ; VDD - VEE = + 3 to + 12 V 0 0 0 O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE.

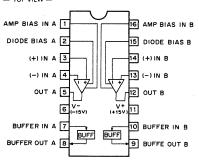
MC74HC4053F (MOTOROLA) FLAT PACKAGE C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER



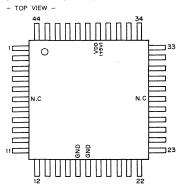
MC74HC4538F (MOTOROLA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -



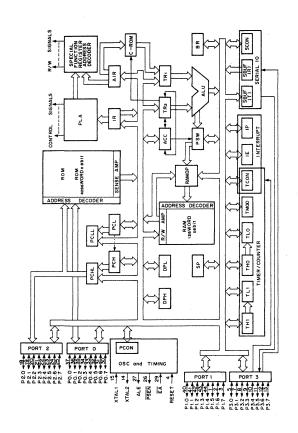
NJM13700M (JRC) FLAT PACKAGE
DUAL OPERATIONAL TRANSCONDUCTANCE AMPLIFIER
— TOP VIEW —



MSM8031FVGS-V1K (OKI) C-MOS 8-BIT 1 CHIP MICROCOMPUTER



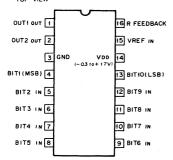
PIN No.	1/0	FUNCTION	PIN No.	1/0	FUNCTION
1	1/0	P1.5	23	1/0	P2.5
2	1/0	P1.6	24	1/0	P2.6
3	11/0	P1.7	25	0	P2.7
4		RESET	26	0	PSEN
5	1/0	P3.0/RXD	27	0	ALE
6	į .	N.C	28		N.C
7	1/0	P3.1/TXD	29	ı	ĒĀ
8	1/0	P3.2/INT0	30	1/0	P0.7
9	1/0	P3.3/INT1	31	1/0	P0.6
10	1/0	P3.4/T0	32	1/0	P0.5
11	1/0	P3.5/T1/HPD1	33	1/0	P0.4
12	1/0	P3.6 / WR	34	1/0	P0.3
13	1/0	P3.7/RD	35	1/0	P0.2
14	0	XTAL2	36	1/0	P0.1
15	1	XTAL1	37	1/0	P0.0
16		GND	38		V _{DD} (+5V)
17		GND	39		N.C
18	1/0	P2.0	40	1/0	P1.0/T2
19	1/0	P2.1	41	1/0	P1.1/T2EX
20	1/0	P2.2	42	1/0	P1.2
21	1/0	P2.3	43	1/0	P1.3
22	1/0	P2.4	44	1/0	P1.4

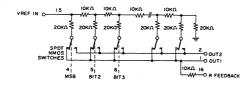


NJU8101M (NEC) FLAT PACKAGE

C-MOS 10-BIT MULTIPLYING D/A CONVERTER

- TOP VIEW -





RC78L ? ? A (RAYTHEON)
POSITIVE VOLTAGE REGULATOR (100mA)

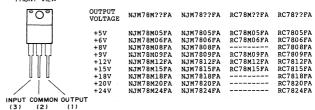




OUTPUT VOLTAGE	NJM78L??A	RC78L??A	uA78L??ACL	uA78L??AWV	uPC78L??J	AN78L??
+2.6V	NJM78L02A	RC78L02A	uA78L02ACL	uA78L26AWV		
+4 V						AN78L04
+5V	NJM78L05A	RC78L05A	uA78L05ACL	uA78L05AWV	uPC78L05J	AN78L05
+6V	NJM78L06A	RC78L06A				AN78L06
+6.2V			uA78L06ACL	uA78L62AWV		
+7V						AN78L07
+8V	NJM78L08A	RC78L08A	uA78L08ACL		uPC78L08J	AN78L08
+8.2V				uA78L82AWV		
+9V	NJM78L09A	RC78L09A	uA78L09ACL	uA78L09AWV		AN78L09
+10V			uA78L10ACL		uPC78Ll0J	AN78L10
+12V	NJM78L12A	RC78L12A	uA78L12ACL	uA78L12AWV	uPC78L12J	AN78L12
+15V	NJM78L15A	RC78L15A	uA78L15ACL	uA78L15AWV	uPC78L15J	AN78L15
+18V	NJM78L18A	RC78L18A		uA78L18AWV		AN78L18
+20V	NJM78L20A	RC78L20A				AN78L20
+24V	NJM78L24A	RC78L24A		uA78L24AWV		AN78L24

RC78M ? ?FA (RAYTHEON)

POSITIVE VOLTAGE REGULATOR - FRONT VIEW -

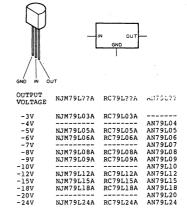


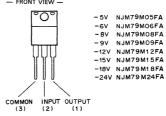


RC79L ? ?A (RAYTHEON)

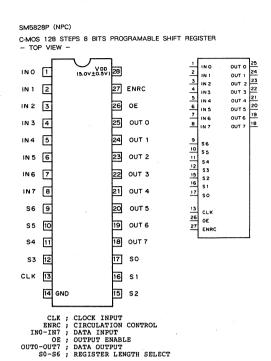
NEGATIVE VOLTAGE REGULATOR (100mA)

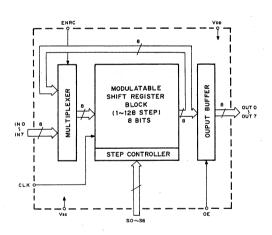
- FRONT VIEW -

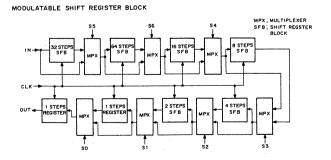


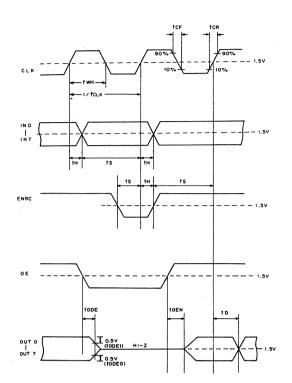




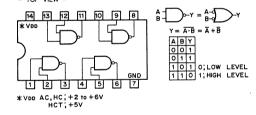




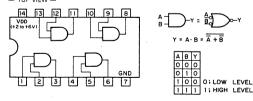




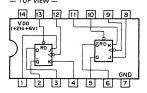
SN74HCOONS (TI) FLAT PACKAGE TC74HCOOF (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NAND GATE - TOP VIEW -



SN74 HC08NS (MOTOROLA) FLAT PACKAGE TC74 HC08F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT AND GATE



SN74HC107NS (TI) FLAT PACKAGE C-MOS DUAL J-K FLIP-FLOPS — TOP VIEW —

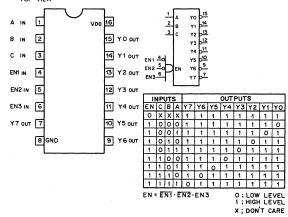


	INP	JT		OUTPUT
RD	CK	J	K	Q
0	X	х	X	0
1	7	0	0	NO CHANGE
1	7	1	0	1
1	7	0	1	0
1	ام	1	1	TOGGLE

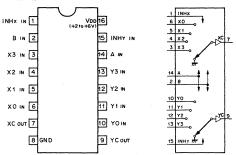
O: LOW LEVEL

1 : HIGH LEVEL X : DON'T CARE

SN74HC138NS (TI) ($V_{00} = +2$ to +6V) FLAT PACKAGE C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER - TOP VIEW -



SN74HC153NS (TI) FLAT PACKAGE C-MOS 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER — TOP VIEW —

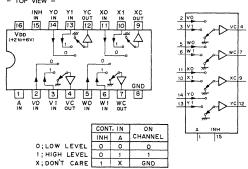


	CON	TROL	IN	ON
	INH	В	Α	CHANNEL
	0	0	0	0
	0	0	1	1
	0	1	0	2
	0	1	1	3
i	1	X	X	GND

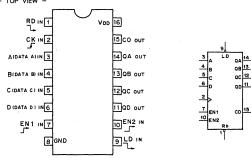
O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

SN74HC157N (TI)

C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



SN74HC163NS (TI) $(V_{\infty} = +2 \text{ to } +6V)$ FLAT PACKAGE C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER – TOP VIEW –

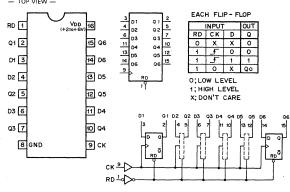


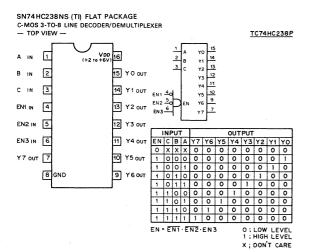
MODE	SEL	ECT!	ON	
CON	TROL	INP	JTS	MODE
.Ro	LD	EN1	EN2	MODE
0	х	x	×	RESET (SYNCHRONOUS)
1	0	×	×	PRESET (SYNCHRONOUS)
1	1	0	Х	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

CARRY OUTPUT "CO" CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

COUNT SE	QUEN	CE		
COUNT			PUTS	
COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	-
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	. 0	1	0	1
6	0	1	_ 1	0
7 .	0	. 1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
1.1	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

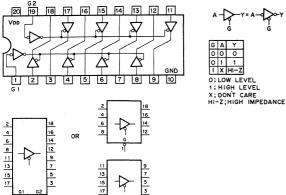
SN74HC174NS (TI) FLAT PACKAGE C-MOS D-TYPE FLIP-FLOP WITH RESET — TOP VIEW —



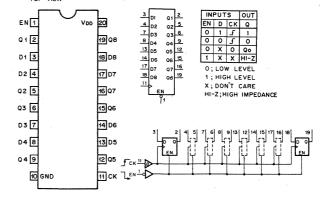


SN74HC373NS (TI) (V_{00} = + 2 to + 6V) FLAT PACKAGE TC74HC373F (TOSHIBA) (V_{00} = + 2 to + 6V) FLAT PACKAGE C-MOS 3-STATE OUTPUTS OCTAL LATCHES 01 2 02 5 03 6 04 9 05 12 06 15 07 16 08 19 7 D3 8 D4 13 D5 14 D6 17 D7 18 D8 EN IN 1 VDD 20 Q 1 OUT 2 19 QB OUT D 1 IN 3 18 D8 IN 17 D 7 IN D 2 IN 4 98 16 Q7 OUT Q 2 OUT 5 15 Q6 OUT Q3 OUT 6 EN D LE Q
O 1 1 1 D3 IN 7 14 D6 IN 0 0 1 0 0 X 0 Qo 1 X X HI-Z 13 D5 IN D4 IN 8 12 05 001 Q4 OUT 9 HI-Z; HIGH IMPEDANCE O, LOW LEVEL 1; HIGH LEVEL X; DON'T CARE 11 LE IN

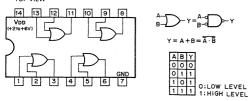
SN74HC244NS (TI) (V_{∞} = +2 to +6V) FLAT PACKAGE C-MOS BUS BUFFER WITH 3-STATE OUTPUTS - TOP VIEW - G 2 [30] [19] [19] [17] [6] [15] [14] [13] [12] [11]



SN74HC374NS (TI) (V_∞ = + 2 to +6V) FLAT PACKAGE C-MOS 3-STATE OCTAL D-TYPE FLIP-FLOP - TOP VIEW -

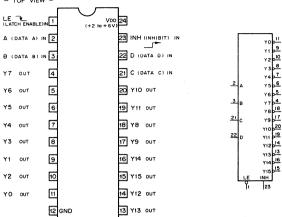


SN74HC32NS (TI) FLAT PACKAGE C-MOS 2-INPUT OR GATE — TOP VIEW —



SN74HC4515NT (TI) FLAT PACKAGE

C-MOS 4-LINE TO 16-LINE DECODER/DEMULTIPLEXER WITH ADDRESS LATCHES – TOP VIEW –

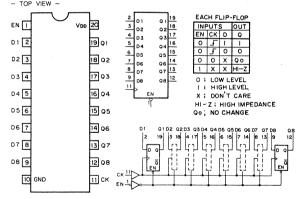


	LAT	CHE	D D	ATA		SI	ELE	СТ	ED	ου	TP	UT	s	
INH	Б	С	В	Α	Y15	Y14	Y13	Y12		Y4	Y3	Y2	Y1	YO
0	0	0	0	0	1	1	1	1		1	1	1	1	0
0	0	0	0	1	1	1	1	1		1	1	1	0	1
0	0	0	1	0	1	1	1	1		1	1	0	1	1
0	0	0	1	1	1	1	1	1		1	0	1	1	1
0	0	1	0	0	1	1	1	1		0	1	1	1	f
				1		:					1			
j	i	L i	l i	i .	Li	Li.	i	i		i	1	-	-	Li.
0	1	1	0	0	1	1	1	0		1	•	1	1	1
0	1	1	0	1	1	4	0	1		1	1	1	1	1
0	1	1	1	0	1	0	1	1		1	1	1	1	1
0	1	1	1	1	0	1	1	1		1	1	1	1	1
1	X	X	X	x	Г		AL	L	OUTPL	ЛΞ	3 = 9	Ī		

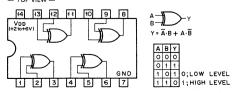
- O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

SN74HC574NS (TI) (V_{∞} = + 2 to + 6V) FLAT PACKAGE TC74HC574F (TOSHIBA) (V_{∞} = + 2 to + 6V) FLAT PACKAGE

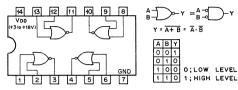
C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP - TOP VIEW -



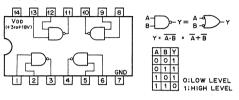
SN74HC86NS (TI) FLAT PACKAGE TC74HC86F (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE
- TOP VIEW --



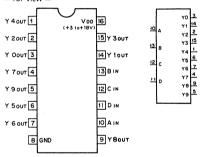
TC4001BF (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NOR GATE — TOP VIEW —



TC4011BF (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NAND GATE — TOP VIEW —

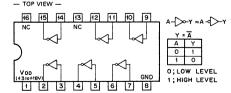


TC4028BF (TOSHIBA) FLAT PACKAGE C-MOS BCD TO DECIMAL DECODER --- TOP VIEW ---

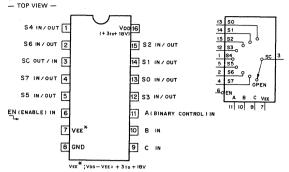


STATE INP D C O O O	-	A Y	oly i	Y2	0U		UT	S					
DC	-	- 1	2	Y2	Y3	100		OUTPUTS					
0 0 0	0	0 1			•	14	Y5	Y6	Υ7	Y8	Y9		
			10	0	0	0	0	0	0	0	0		
1 00	0	1 0	1	0	0	0	0	0	0	0	0		
2 00	1	0 0	0	1	0	0	0	0	0	0	0		
3 0 0	1	1 (0	0	1	0	0	0	0	0	0		
4 0 1	0	0 0	0	0	0	1	0	0	0	0	0		
5 0 1	0	1 0	0	0	0	0	1	0	0	0	0		
6 0 1	1	<u>ा</u>	0	0	0	0	0	1	0	0	0		
7 01	1	1 0	0	0	0	0	0	0	1	0	0	O;LOW LEVEL	
8 1 X	X	0 0	0	0	0	0	0	0	0	1	0	1;HIGH LEVEL	
9 1 X	X	1 0	0	0	0	0	0	0	0	0	1	X; DON'T CARE	

TC4049BF (TOSHIBA) FLAT PACKAGE C-MOS INVERTING TYPE BUFFER/CONVERTER — TOP VIEW —

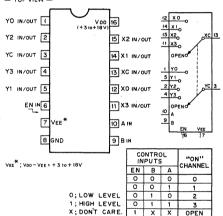


BVS-3100/3100P BVS-3200/3200P BVS-3200C/3200CP

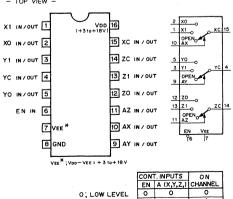


ΕN	С	В	Α	"ON" CHANNEL	1
0	0	0	0	. 0	1
0	0	0	1	1	1
0	0	1	0	2	1
0	0	1	1	. 3	1
0	1	0	0	4	1
0	1	0	1	5	1
0	_1	1	0	6	O; LOW LEVEL
0	_1	1	1	7	1: HIGH LEVEL
1	X.	Х	Х	OPEN	Y: DON'T CARE

TC4052BFHB (TOSHIBA) FLAT PACKAGE C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER — TOP VIEW —



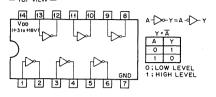
TC4053BFHB (TOSHIBA) FLAT PACKAGE C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER



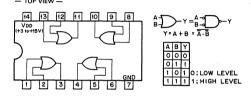
0; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE.

TC4069UBF (TOSHIBA) FLAT PACKAGE C-MOS INVERTER

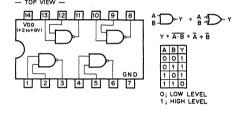
— TOP VIEW —

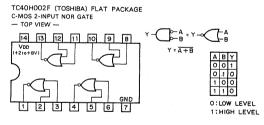


TC4071BF (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT OR GATE — TOP VIEW —



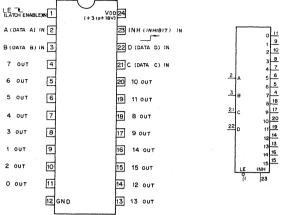
TC40H000F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NAND GATE -- TOP VIEW ---

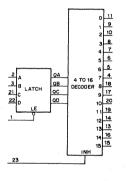




TC4514BP (TOSHIBA)

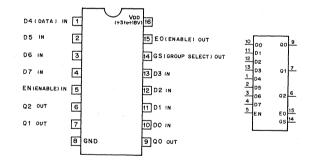
C-MOS 4-BIT LATCH/4-TO-16 LINE DECODER - TOP VIEW -

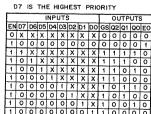




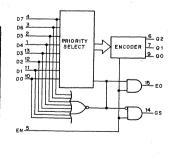
INH	LAT	CHE	D D	ATA		S	ELE	СТ	ED	οu	TP	UT	s	
IIII	QD	QC	QB	QA	15	14	13	12		4	3	2	1	0
0	0	0	0	0	0	0	0	0		0	0	0	0	1
0	0	0	0	1	0	0	0	0		0	0	0	1	0
0	0	0	1	0	0	0	0	0		0	0	1	0	0
0	0	0	1	1	0	0	0	0		0	1	0	0	0
0	0	1	0	0	0	0	0	0		1	0	0	0	0
1	~ -	1		-		;		Н		1	T	1	1	1
- ;	1	1	1		1	1	1		1.	1		1	:	
0	1	1	0	0	0	Q.	0	1		0	0	0	0	0
0 .	1	1	0	1	0	0	1	0		0	0	0	0	0
0	1	1	1	0	0	1	0	0		0	0	0	0	o
0	1	1	1	1	1	0	0	0		0	0	0	0	0
1	X X X X ALL OUTPUTS=0													

TC4532 BP (TOSHIBA) C-MOS 8-BIT PRIORITY ENCODER — TOP VIEW —



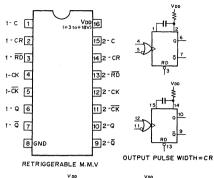


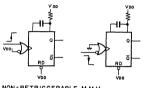


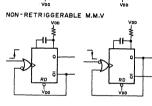


TC4538BF (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

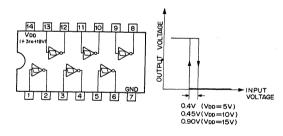




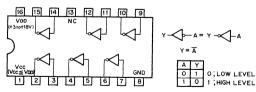


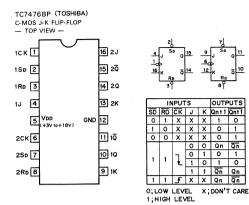
TC4584BF (TOSHIBA) FLAT PACKAGE

C-MOS SCHMITT TRIGGER INVERTER - TOP VIEW -



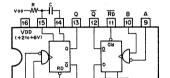
TC5020BP (TOSHIBA)
C-MOS LOW-TO-HIGH VOLTAGE TRANSLATION INVERTER
--- TOP VIEW ---





TC74HC123F (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR — TOP VIEW —

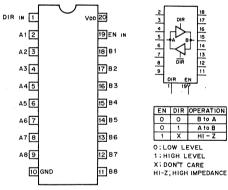


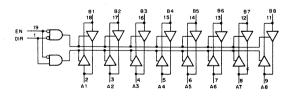
ĺ	0	х	Х	0	1	
ì	1	1	X	0	1	
	1	X	0	0	1	
	1	0	5	5	Ę	0 ; LOW LEVEL
ĺ	1	7.	1	5	Ľ	1; HIGH LEVEL
	4	0	+	ζ	7	X; DON'T CARE
	OUT	PUT	PU	LSE	WIDT	H = 0.46CR

INPUT OUTPUT

TC74HC245AF (TOSHIBA) ($V_{\infty} = +2$ to +6V) FLAT PACKAGE C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS - TOP VIEW -

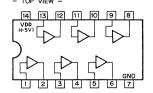
6 7 8





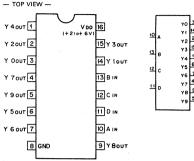
TC74HCT7007AF (TOSHIBA)

C-MOS HEX BUFFER - TOP VIEW -





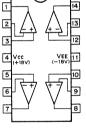
TC74HC4028F (TOSHIBA) FLAT PACKAGE C-MOS BCD TO DECIMAL DECODER — TOP VIEW —



CTATE		NP	UT	S	Г		-	ΟU	TΡ	UT:	S					
STATE	D	С	В	Α	YO	Y١	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Υ9		
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
1	0	0	0	1	0	1	0	0	0	0	0	0	0	0		
2	0	0	1	0	0	0	1	0	0	0	0	0	0	0		
3	0	0	1	1	0	0	0	1	0	0	0	0	0	0		
4	0	1	0	0	0	0	0	0	1	0	0	0	0	0		
5	0	1	0	1	0	0	0	0	0	1	0	0	0	0		
6	0	1	1	0	0	0	0	0	0	0	1	0	0	0		
7	0	1	1	1	0	0	0	0	0	0	0	1	0	0	O;LOW	LEVEL
8	1	X	X	0	0	0	0	0	0	0	0	0	1	0	1;HIGH	
9	1	X	X	1	0	0	0	0	0	0	0	0	0	1	X: DON'T	CARE

TL064CNS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT) — TOP VIEW —



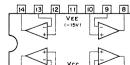


TLO82CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT)



TLO84CNS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER
(J FET-INPUT)

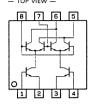
TOP VIEW +



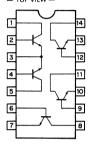
4 5 6 7

3

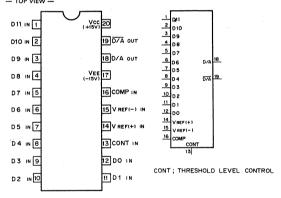
uPA101G (NEC) FLAT PACKAGE TRANSISTOR ARRAY — TOP VIEW —

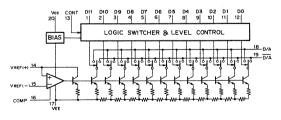


uPA103G (NEC)
DIFFERENTIAL AMPLIFIERS/PULSE PATTERN GENERATORS
— TOP VIEW —



uPC648C (NEC)
12-BIT D/A CONVERTER WITH OPEN COLLECTOR OUTPUT
— TOP VIEW —





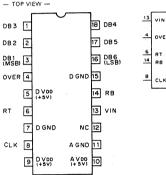
uPC814G2 (NEC) FLAT PACKAGE TTL-DUAL OPERATIONAL AMPLIFIER - TOP VIEW -



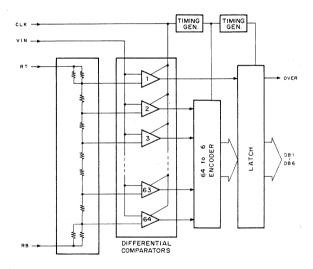
BVS-3100/3100P BVS-3200/3200P BVS-3200C/3200CP uPC311G2 (NEC) FLAT PACKAGE VOLTAGE COMPARATOR — TOP VIEW —



uPD6951C (NEC) C-MOS 6-BIT 20M SPS A/D CONVERTER --- TOP VIEW ---



CLK; CLOCK INPUT
DB; DIGITAL OUTPUT
OVER; OVER RANGE
RB; STANDARD VOLTAGE (LOW VOLTAGE SIDE)
RT; STANDARD VOLTAGE (HIGH VOLTAGE SIDE)
VIN; ANALOG INPUT

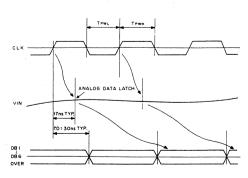


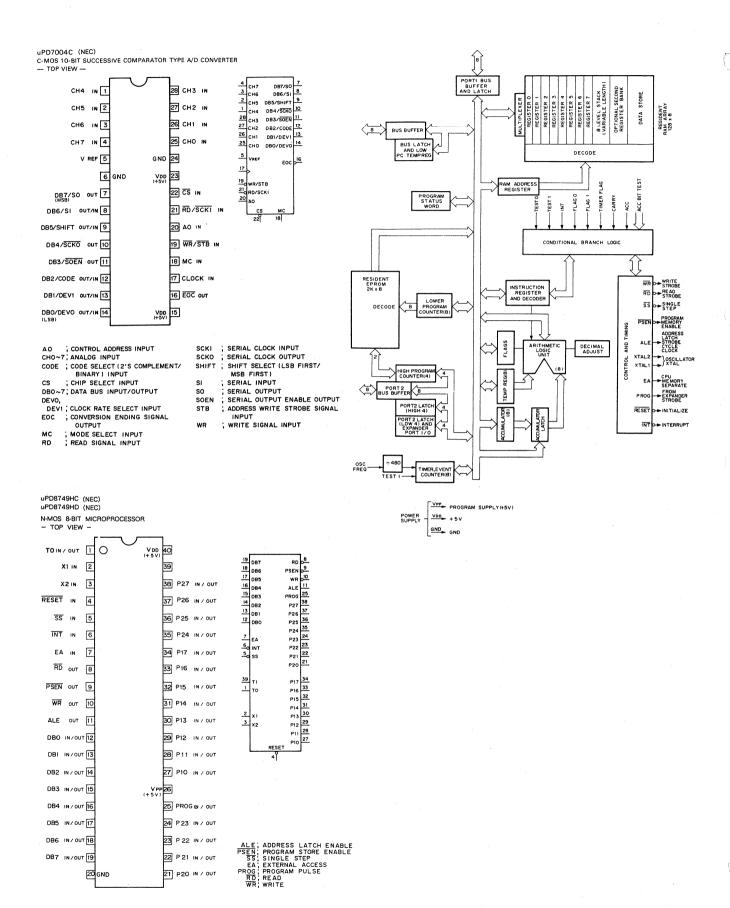
083

DB 2

D86

DB 5





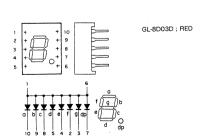
LD-101 MG; GREEN

LD-701MG ; GREEN

RD ? ?M

TLY123 ; YELLOW

TRANSISTOR DIODE 25A11820 25A482 25A612 25



1SZ ? ? RD ? ?ESB ?

-▶}-

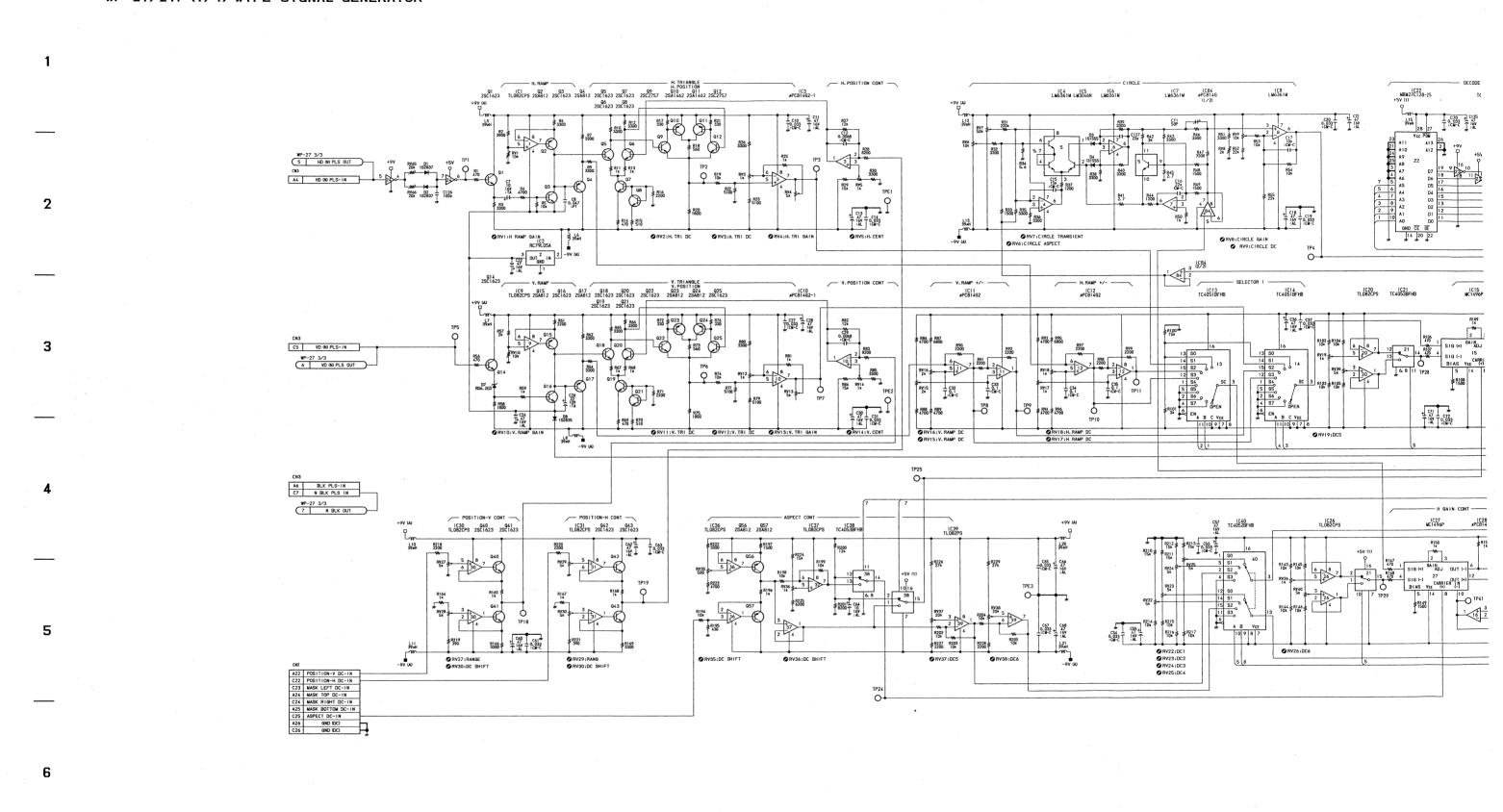
SECTION 7 SCHEMATIC DIAGRAMS

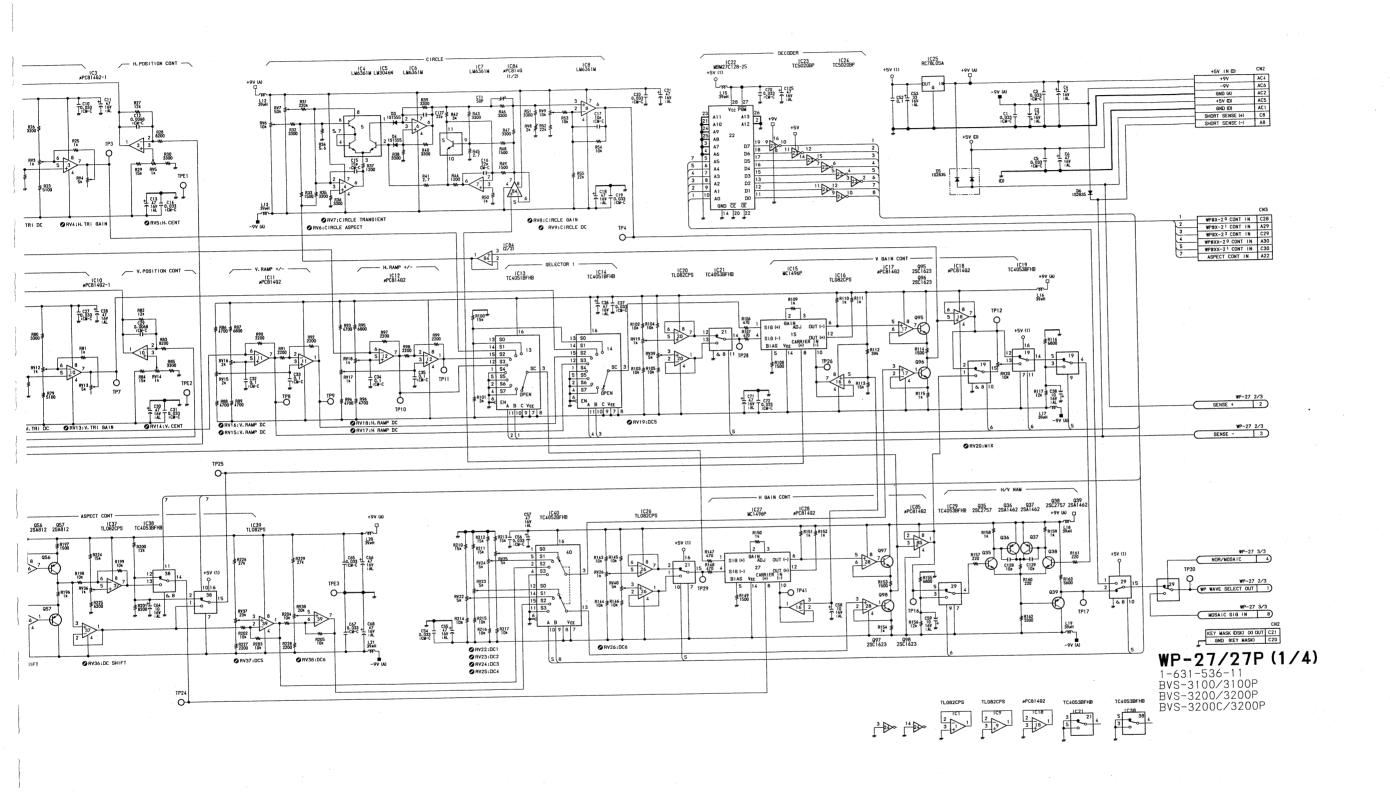
CIRCUIT FUNCTION OF THE SCHEMATIC DIAGRAMS

The circuit information is provided below.

	CIRCUIT BOARD	CIRCUIT FUNCTION	PAGE
PROCESS	CN-330	CONNECTOR BOARD	7-151
	CN-332	CONNECTOR BOARD	7-143
	CN-333/333P	SYNC SEPARATOR	7-139
	CN-336	CONNECTOR BOARD	7-147
	EF-20/20P	Y (COMPOSITE) SIGNAL PROCESSOR	7-105
	EF-20C/20CP	B-Y (R-Y) SIGNAL PROCESSOR	7-119
	EN-80/80P	ENCODER	7-135
	HN-105	MOTHER BOARD	7-157
	HN-138	MOTHER BOARD	7-170
	IV-25/25P	MODE SET FOR INPUT VIDEO SIGNAL	7-131
	LE-55	LED	7-179
	SD-19/19P	SIGNAL GENERATOR FOR SIGNAL PROCESSOR	7-47
	SD-20/20P	SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR	7-75
	S0PS-1007	SW REG	7-175
	SY-138/138P	SYSTEM CONTROL	7-29
	SY-154	12BIT DA CHANGER	7-41
	WP-27/27P	WIPE SIGNAL GENERATOR	7-4
CONSOLE	LP-47	LED	7-206
	LP-48	LED	7-206
	LP-49	LED	7-206
	KY-155	SWITCH BOARD	7-185
	KY-157	SUB SWITCH BOARD	7-199
	KY-158	SUB SWITCH BOARD	7-203
	EX-201	EXTENTION BOARD	
	EX-236	EXTENTION BOARD	

WP-27/27P (1/4) WIPE SIGNAL GENERATOR



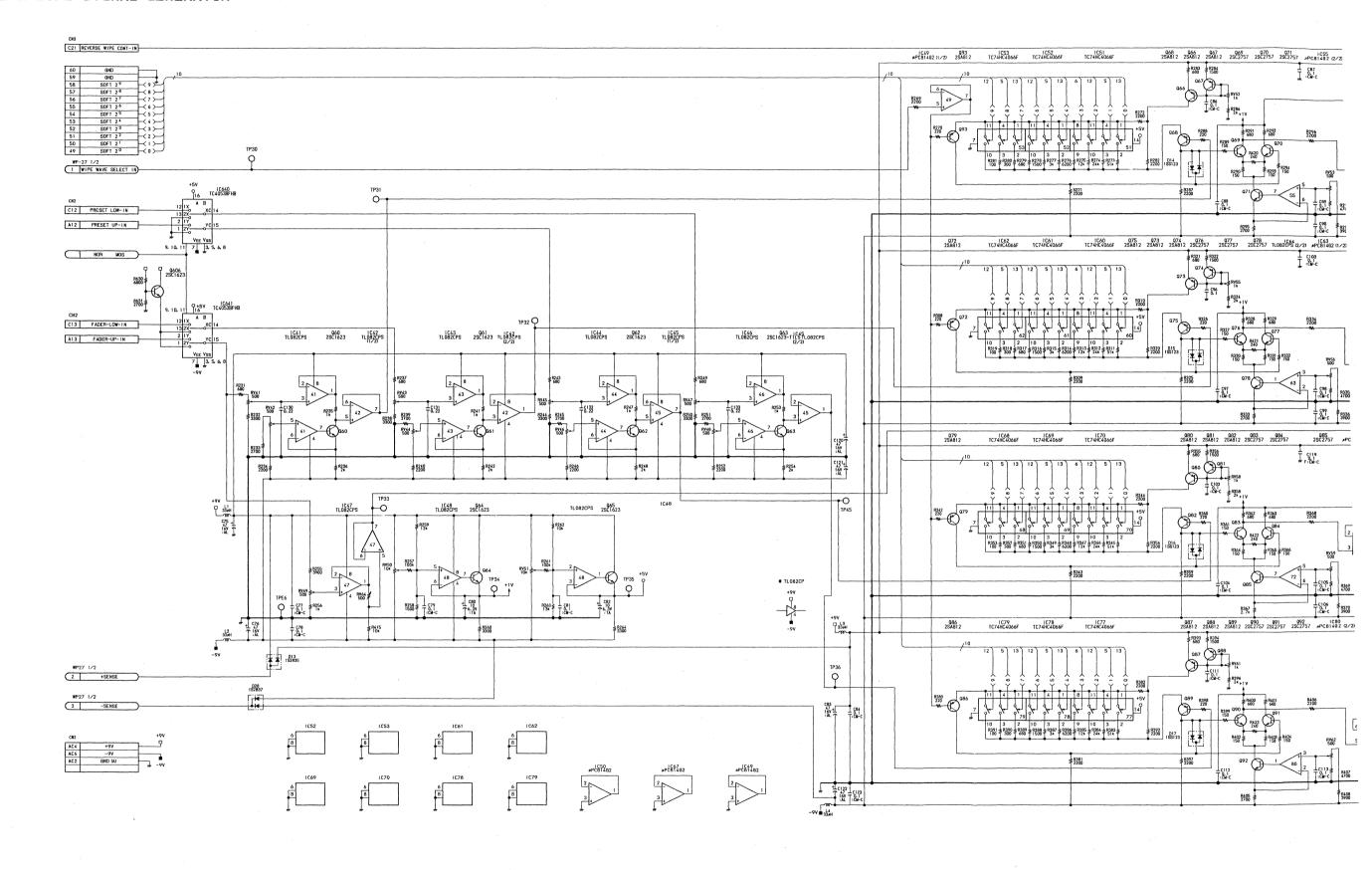


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WP-27/27P (2/4) WIPE SIGNAL GENERATOR

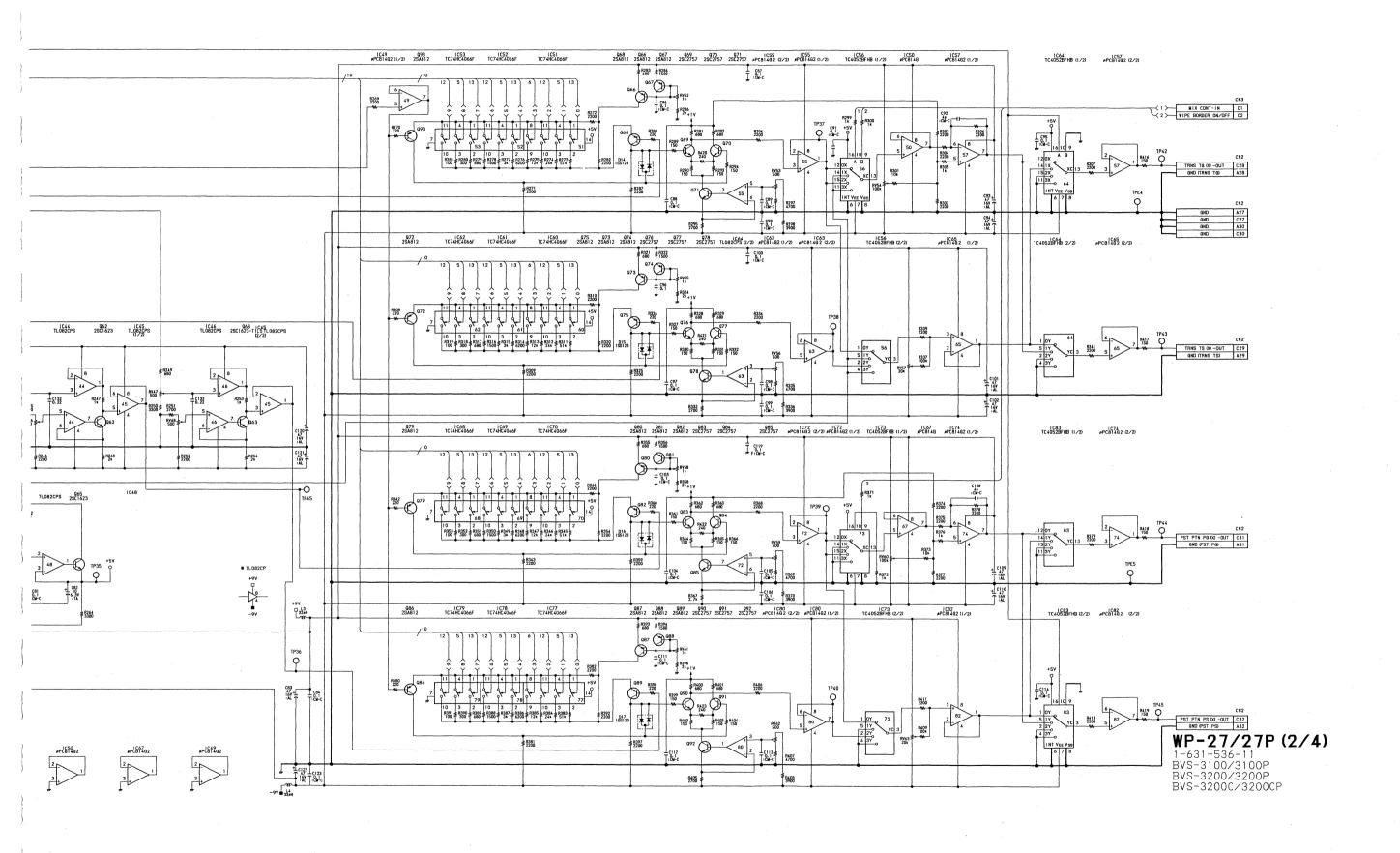


B-SYX133-WP27#2

В

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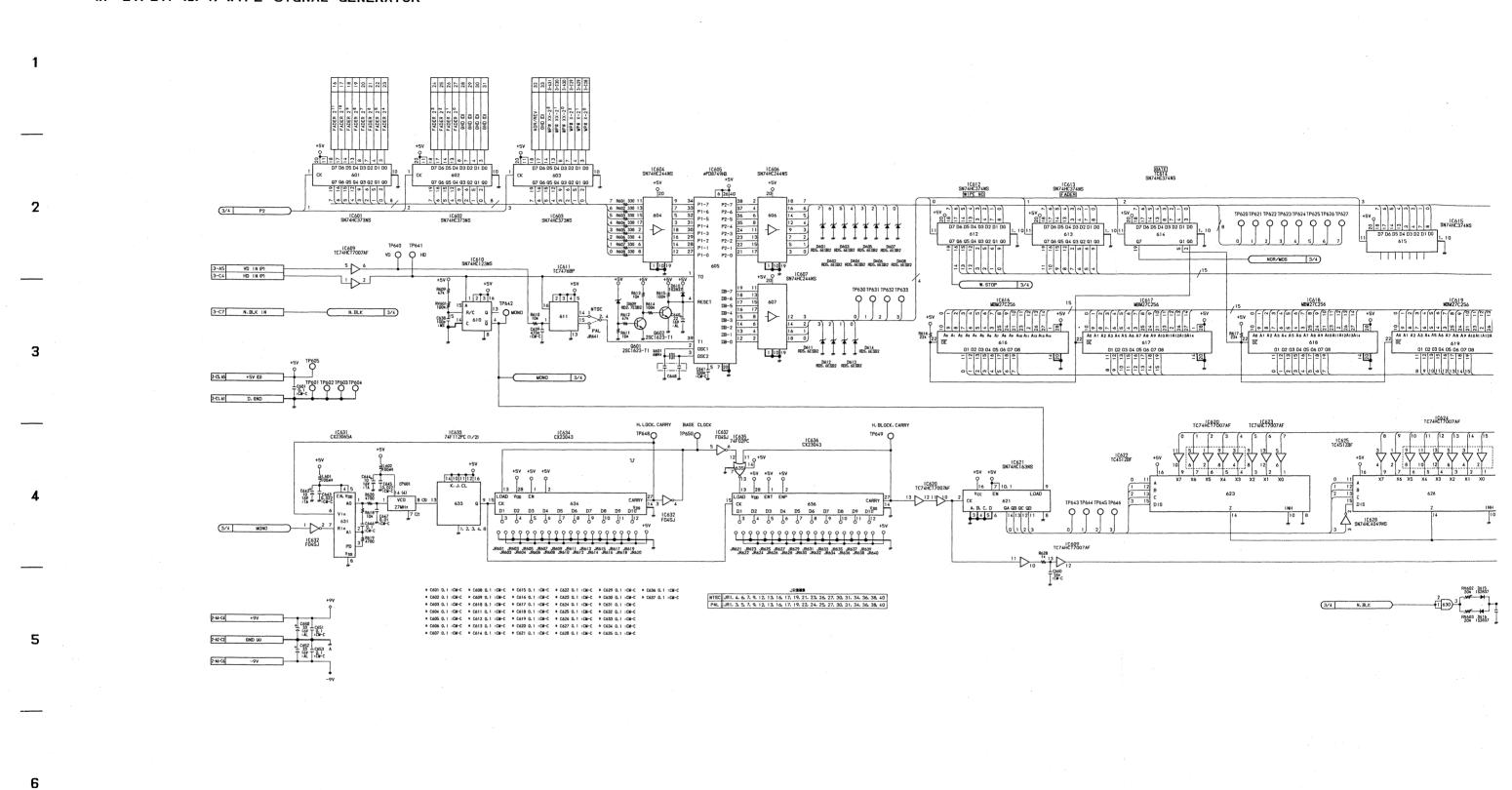
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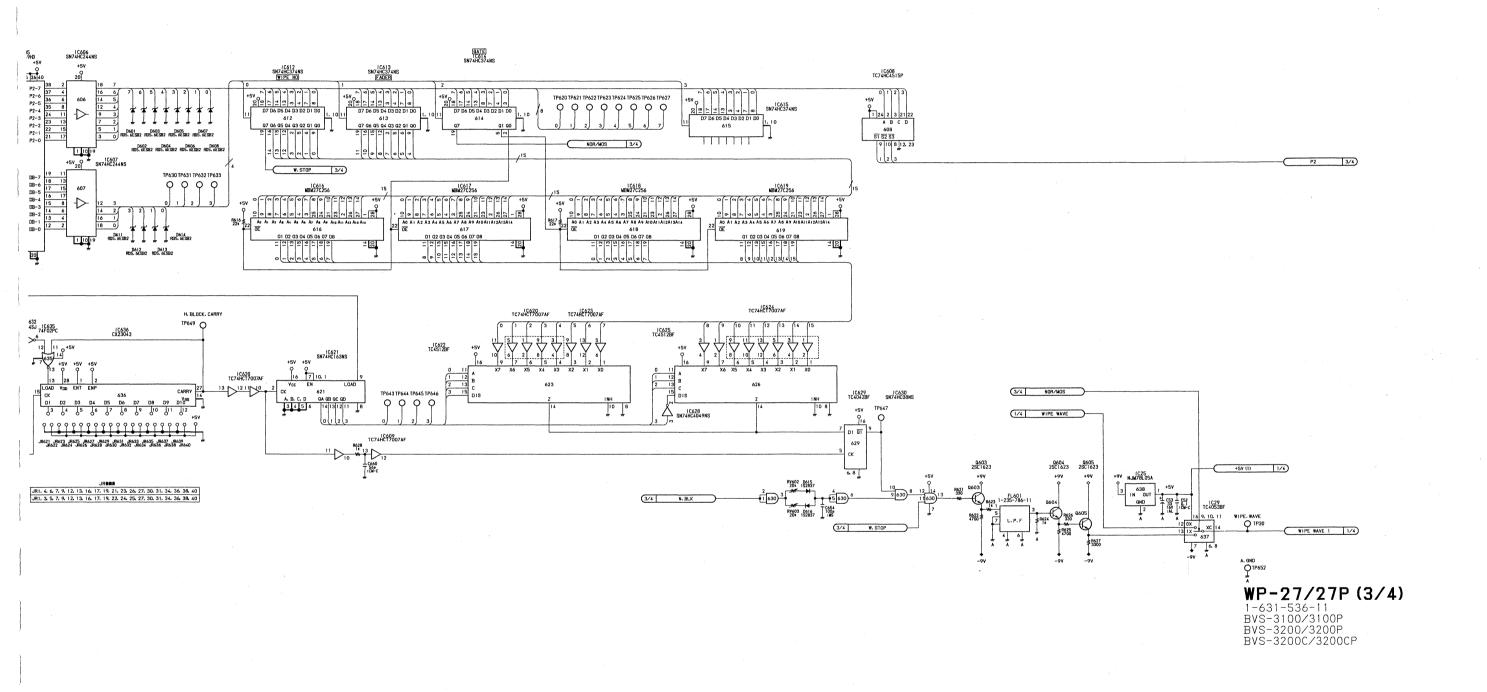
7-12 I

J

WP-27/27P (3/4) WIPE SIGNAL GENERATOR



7-17 B-SYX133-WP27#3 Ε



E

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7-18

J

WP-27/27P (4/4) WIPE SIGNAL GENERATOR

9701 9702 9703 9704 9705 1C702 9706 9707 9708 9709 9710 9711 9712 1C703 25C1623 25C162 9740 9757 9758 28C1623 28C1623 28C1623 9713 9714 9715 9716 9717 9718 9719 1C704 1C704 2SA812 2SA812 2SA812 2SA812 2SC2757 2SC2757 2SC2757 TL082CPS TL082CPS 9732 9733 9734 9735 9736 9737 9738 1C707 1C707 2SA812 2SA812 2SA812 2SA812 2SA812 2SC2757 2SC2757 TL082CPS TL08

3-SYX133-WP27#4

7-22

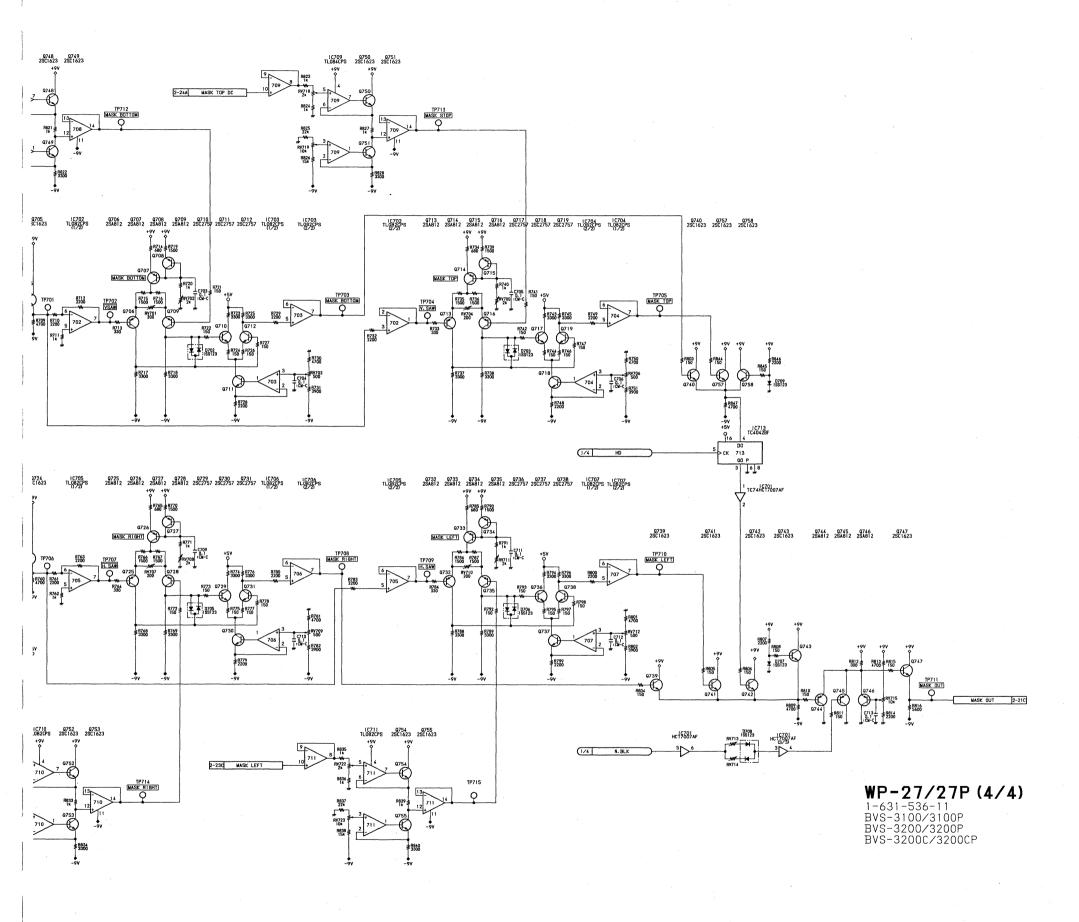
C

D

E

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7-23



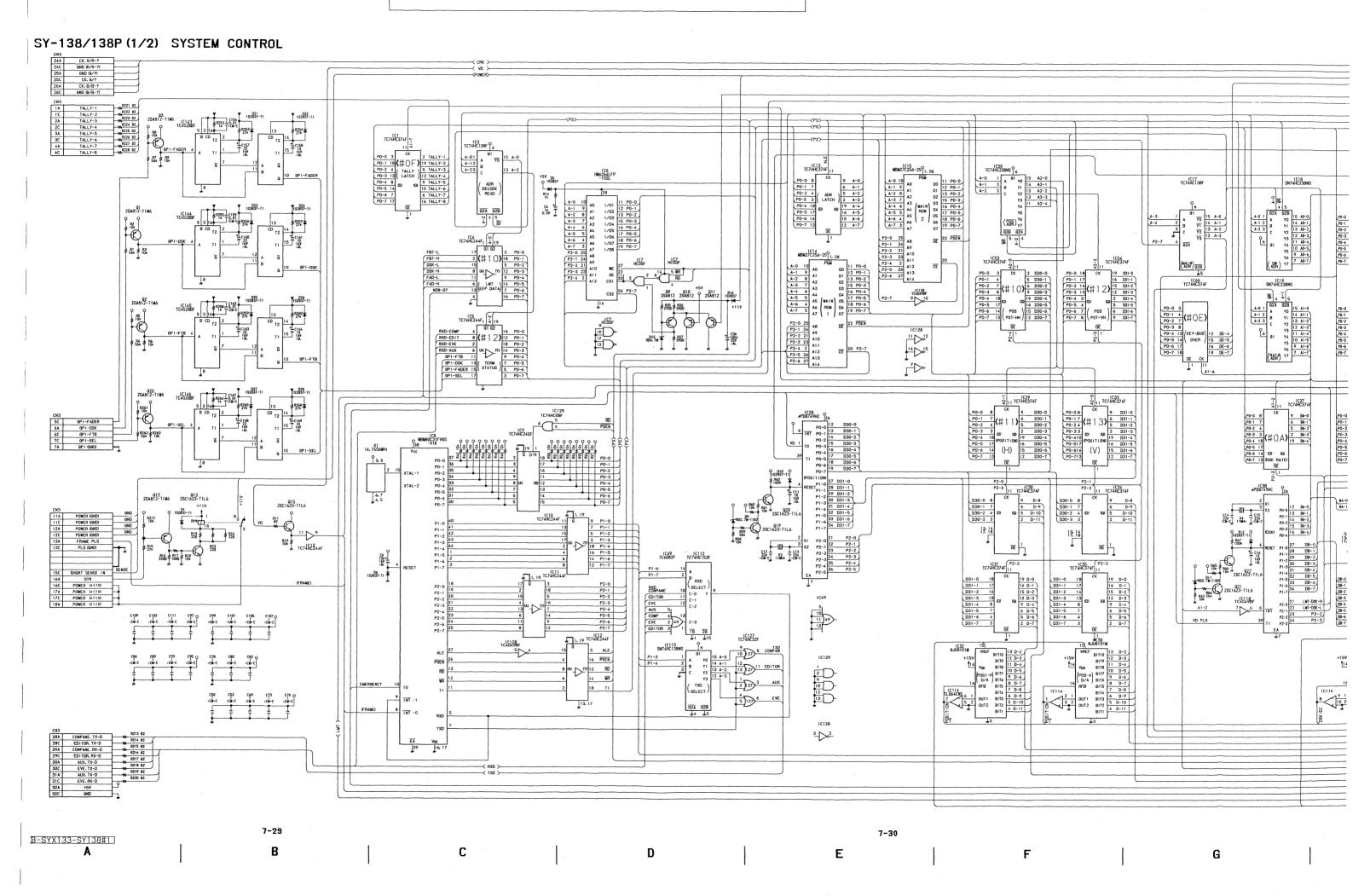
7-24

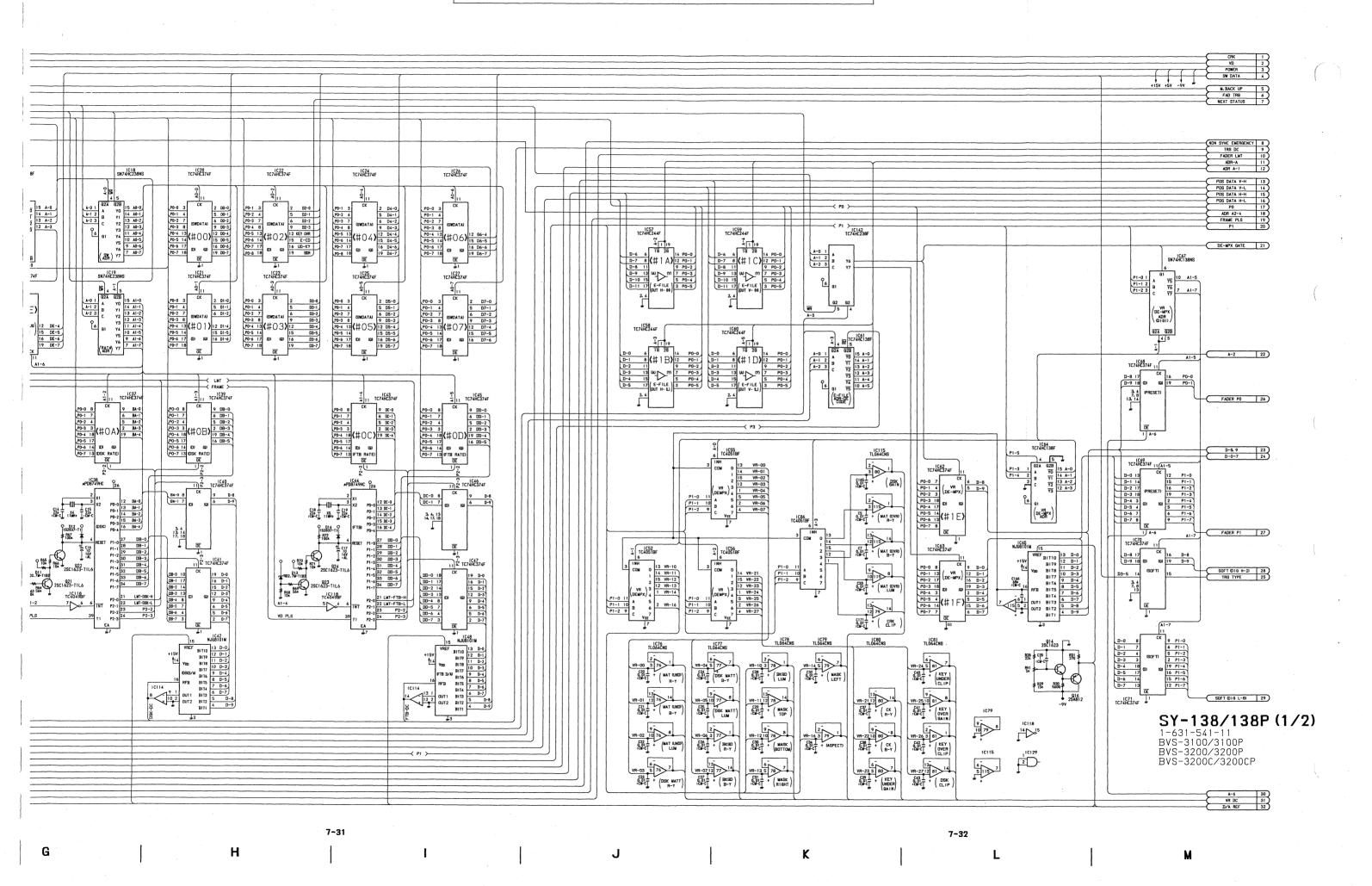
Ε

F

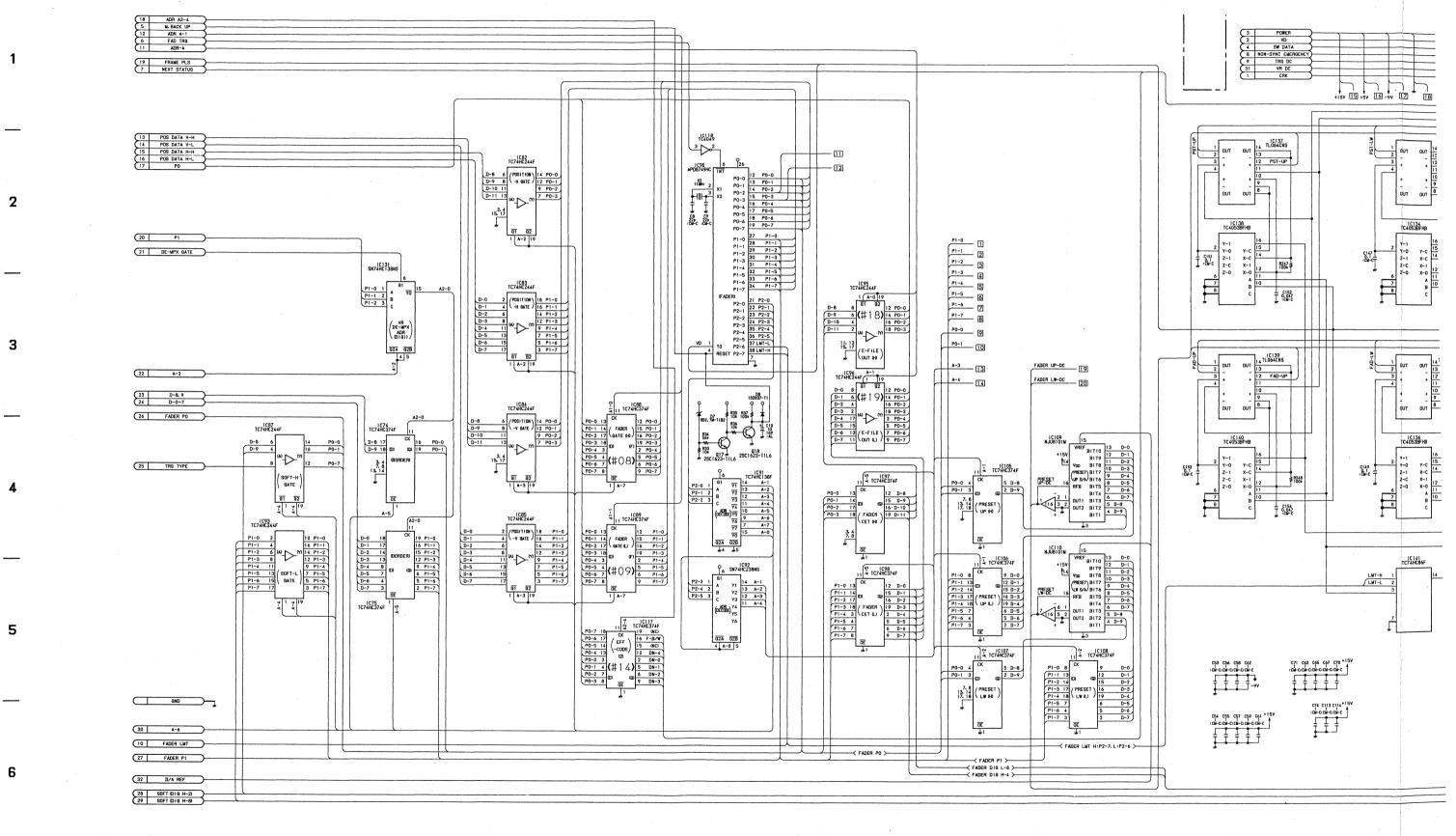
Н

J





SY-138/138P (2/2) SYSTEM CONTROL



7-36

B-SYX133-SY138#2

A

B

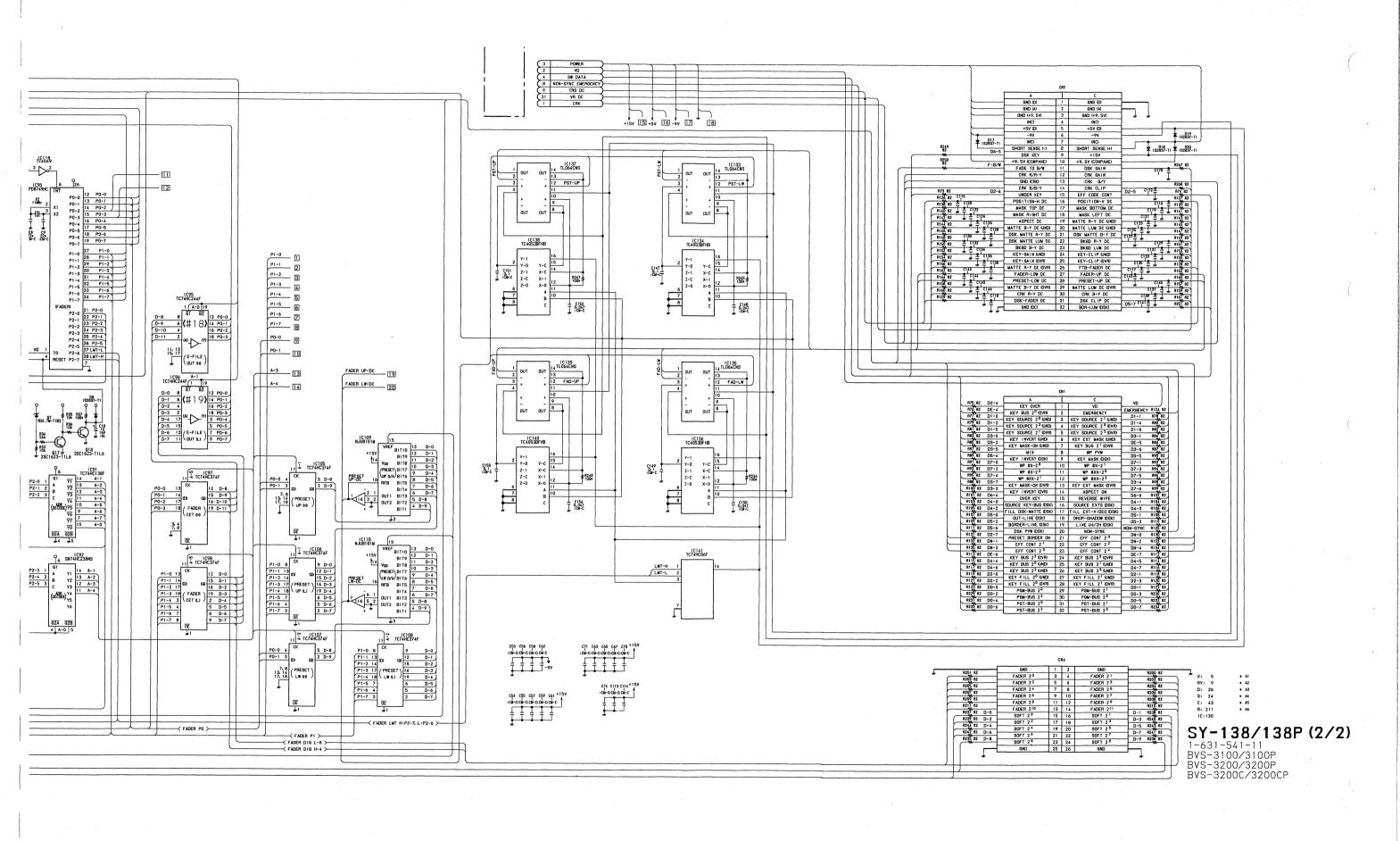
C

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7-37.

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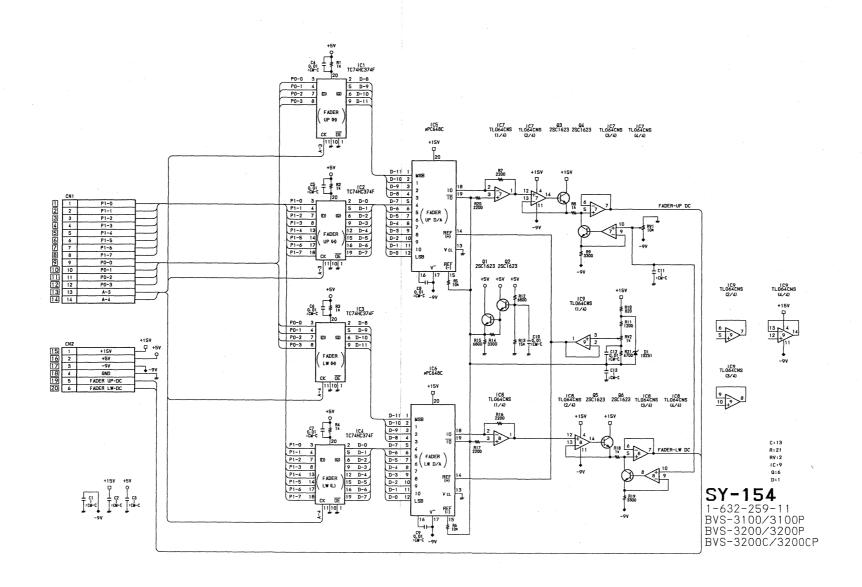
F

G

Н

D

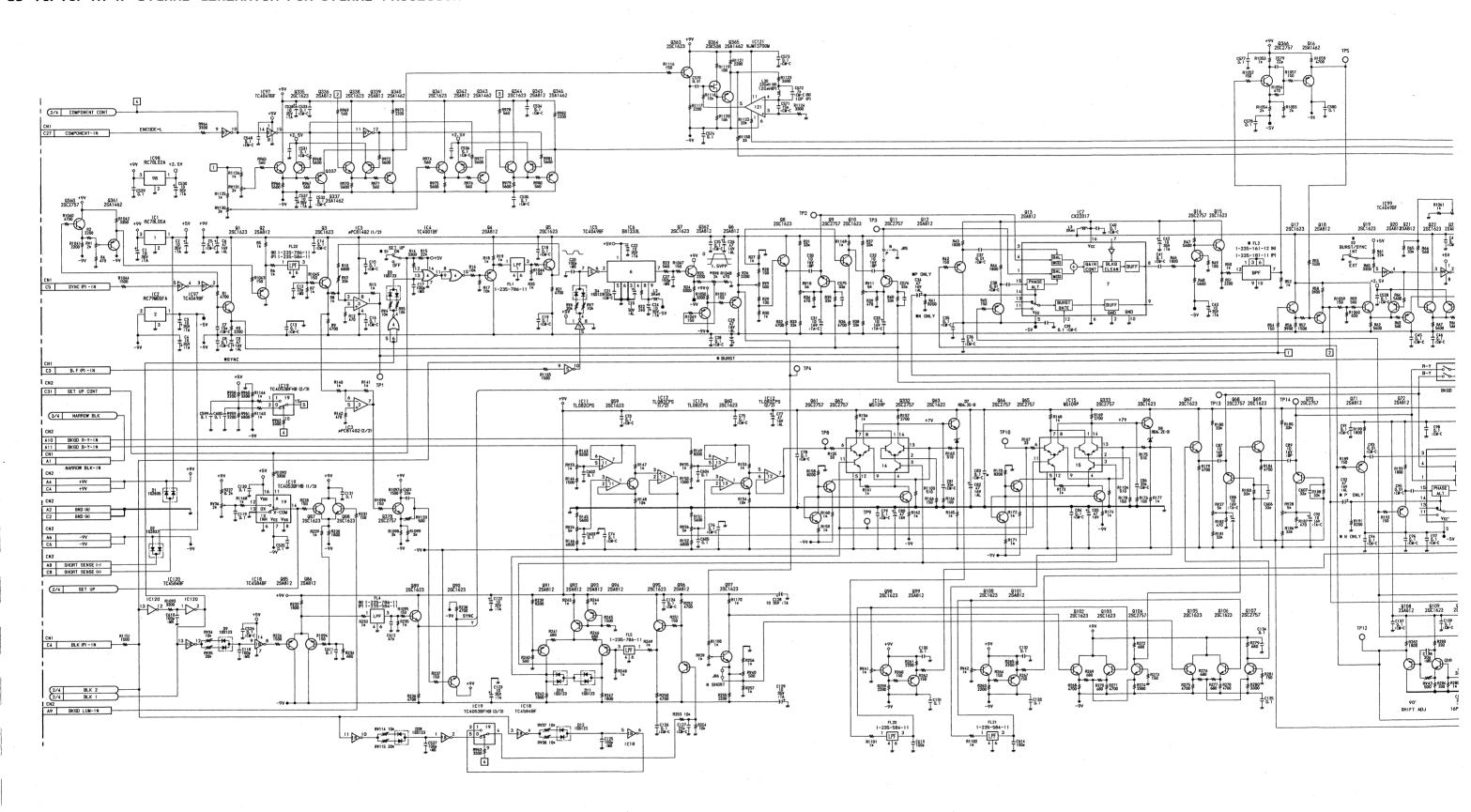
SY-154 12 BIT DA CHANGER



7-42

Ε

SD-19/19P (1/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR



7-47

3-SYX133-SD19#1

A

B

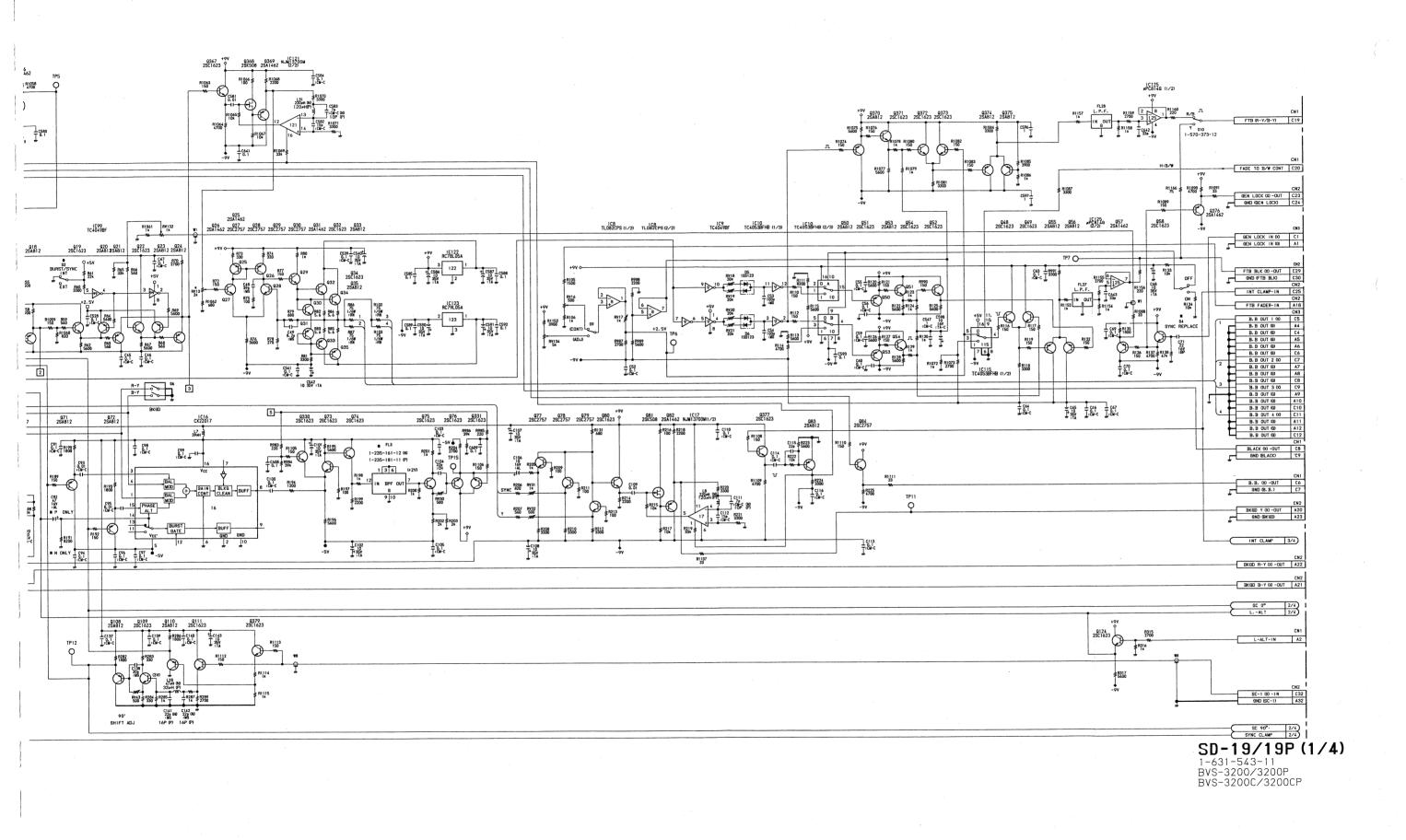
C

D

E

F

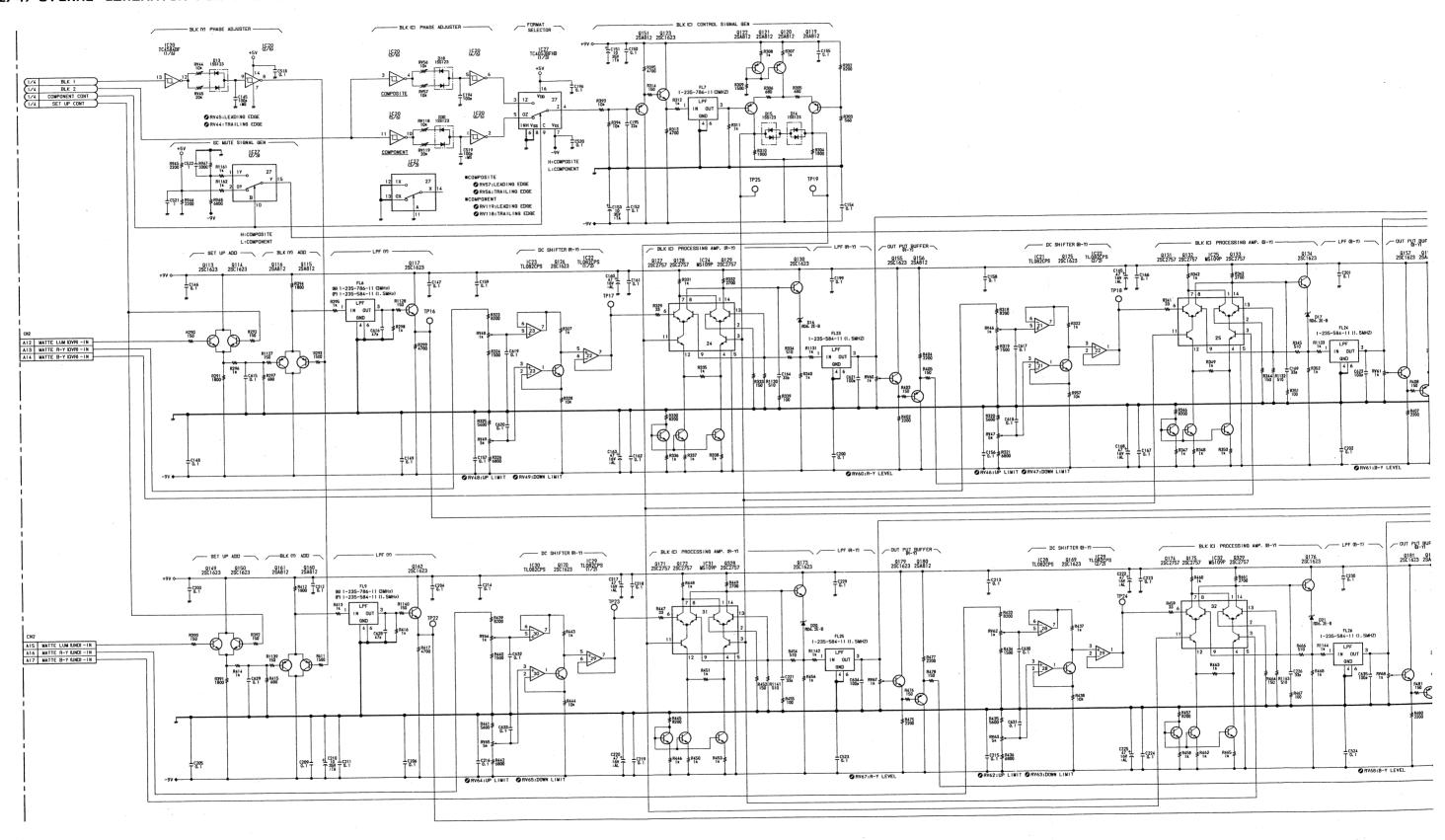
G



7-49

Н

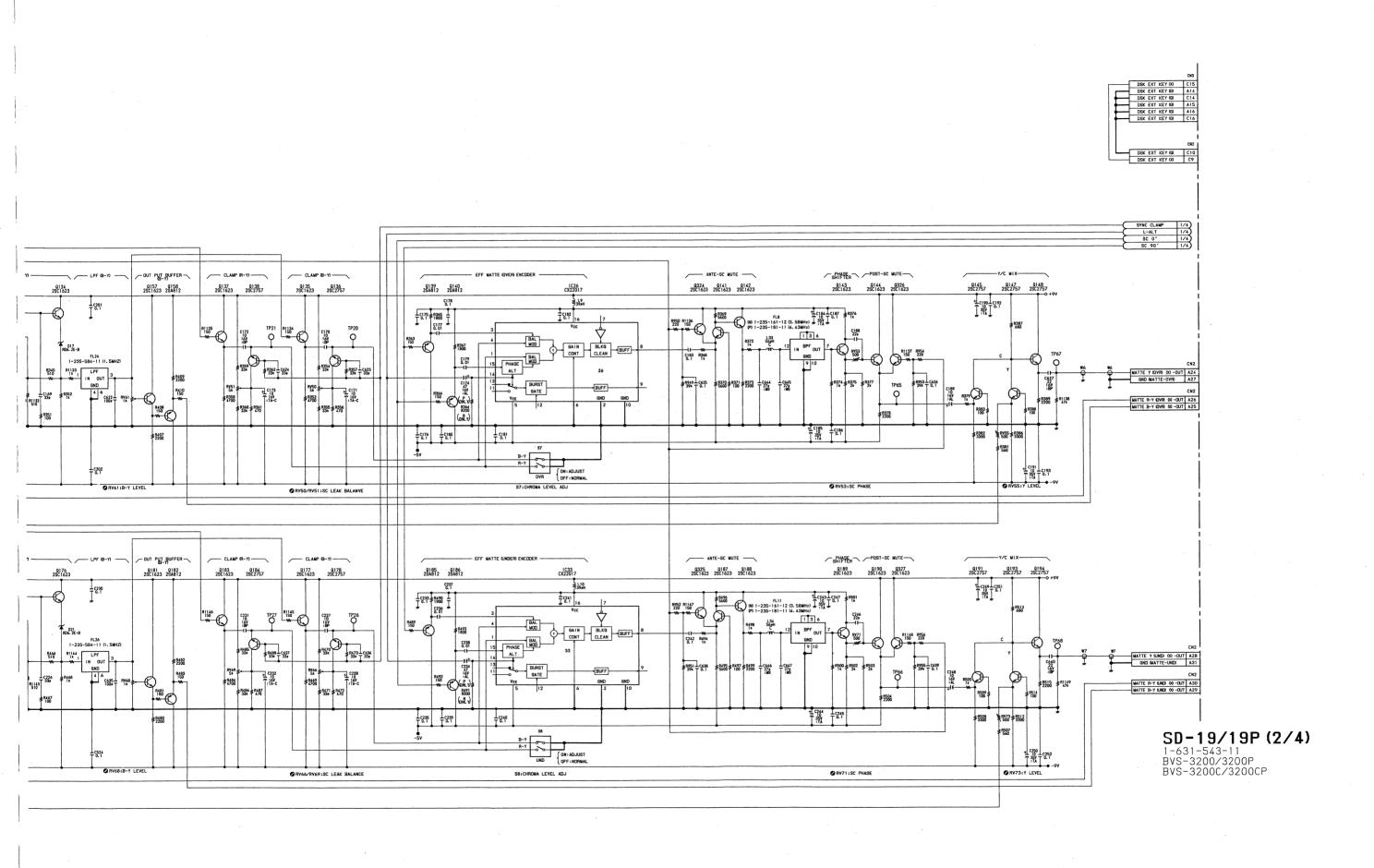
SD-19/19P (2/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR



7-56

B-SYX133-SD19#2]

B C D F G



7-57

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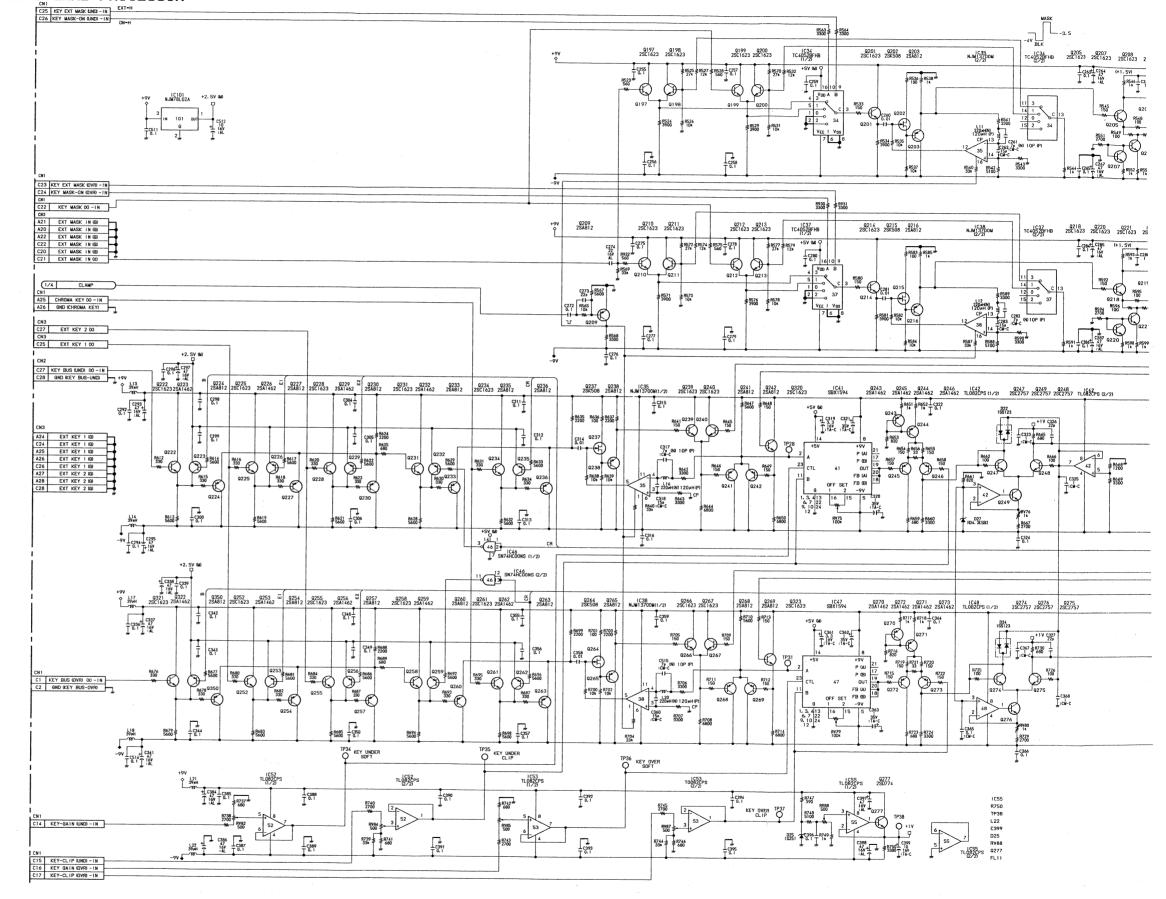
0

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6

SD-19/19P (3/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR



1

В

7-62

С

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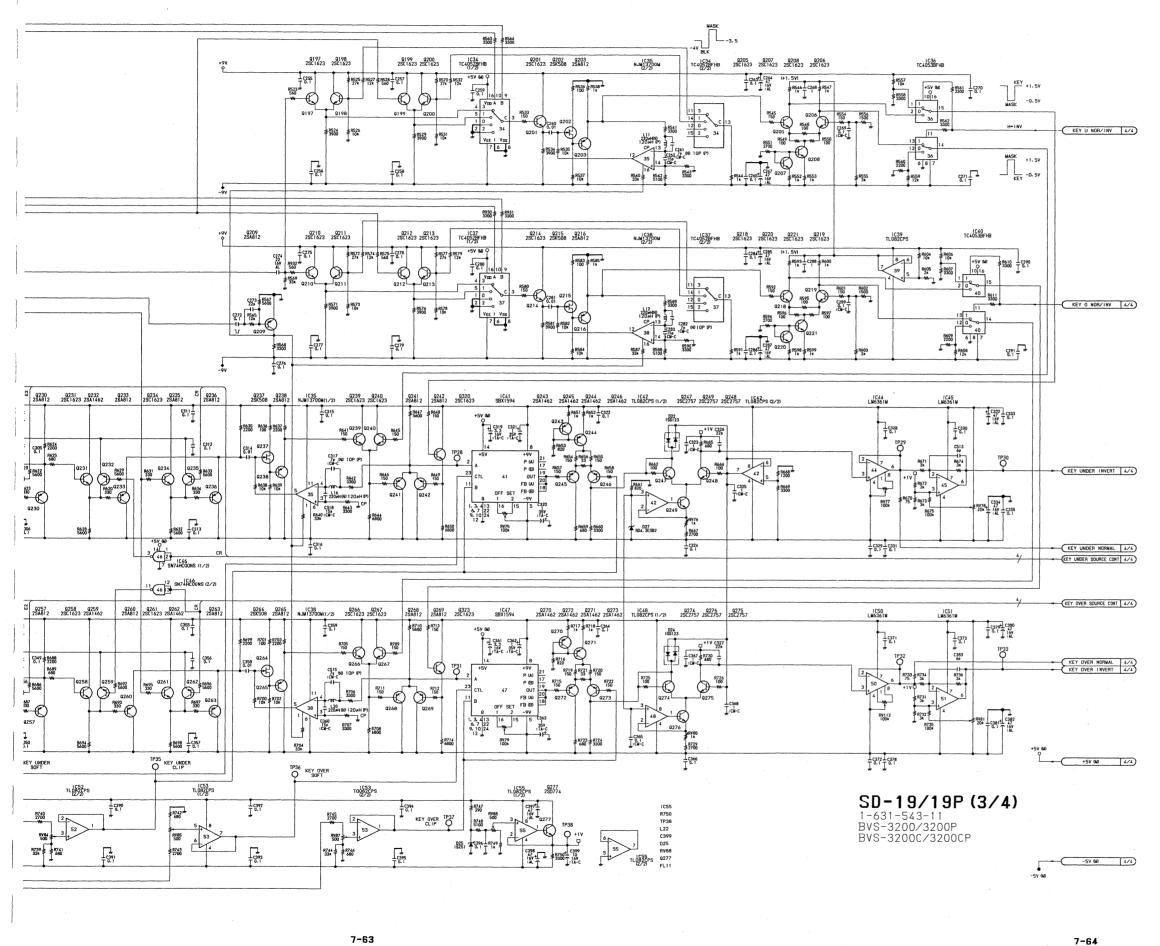
1

Ε

7-63

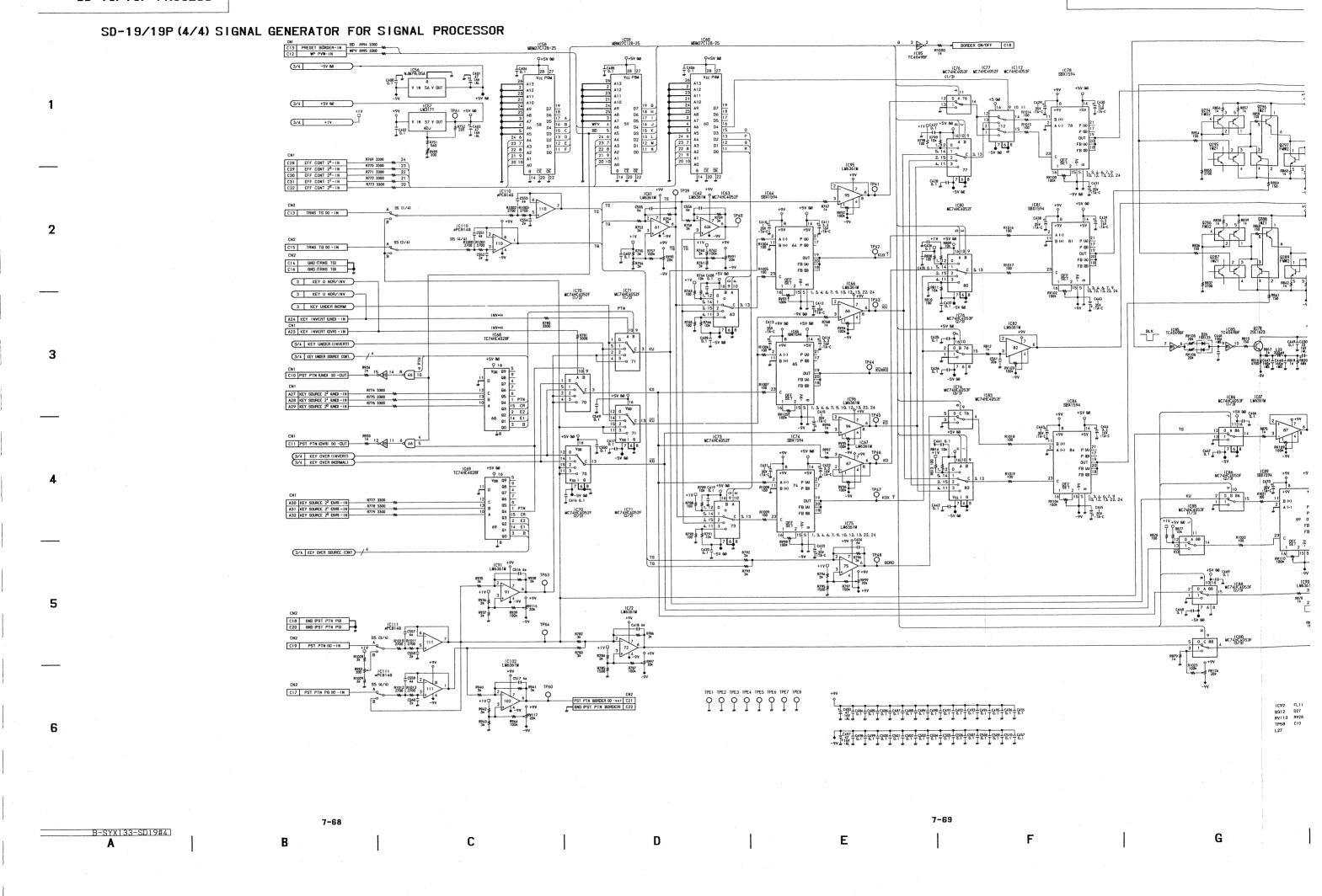
F

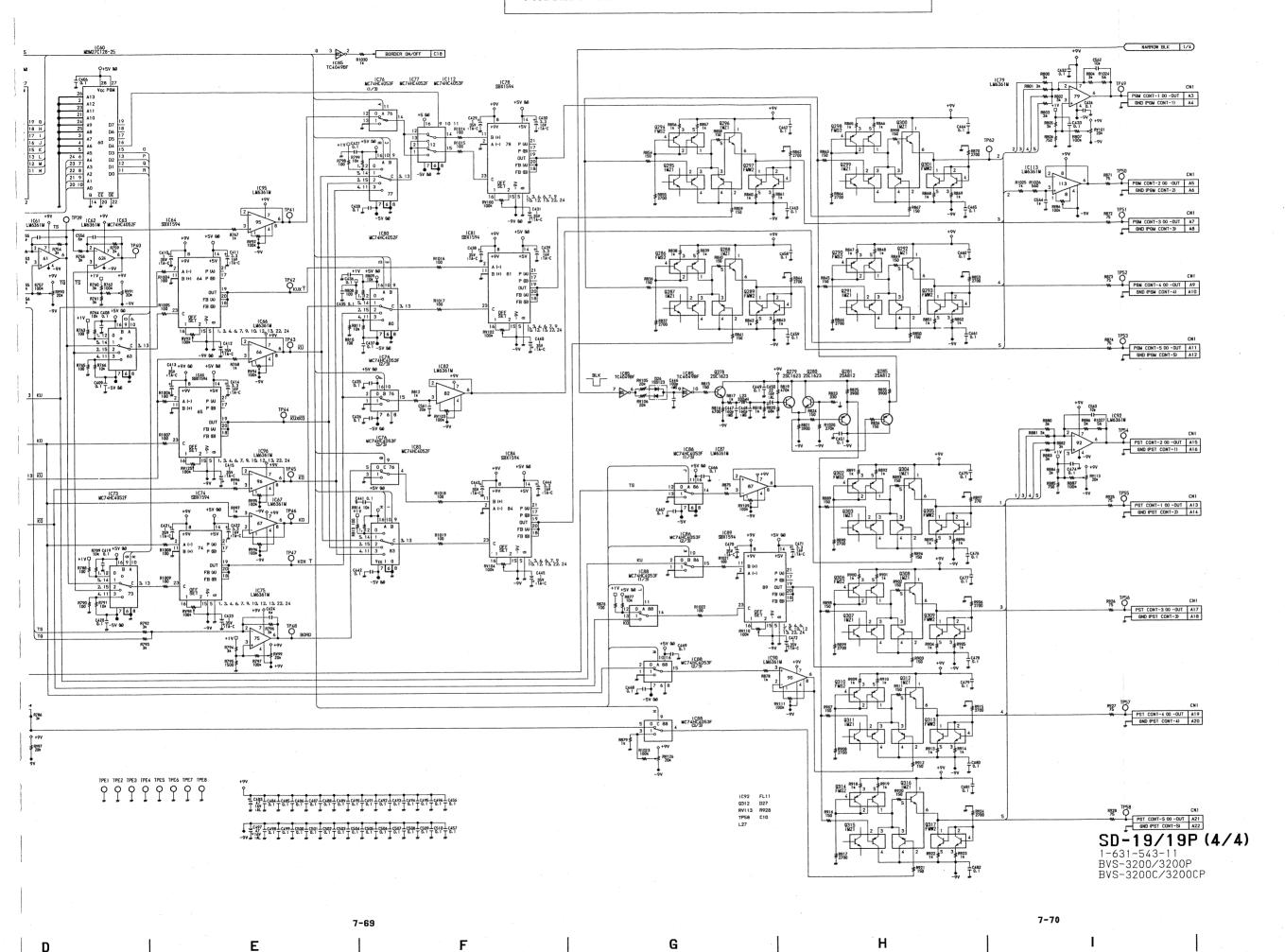
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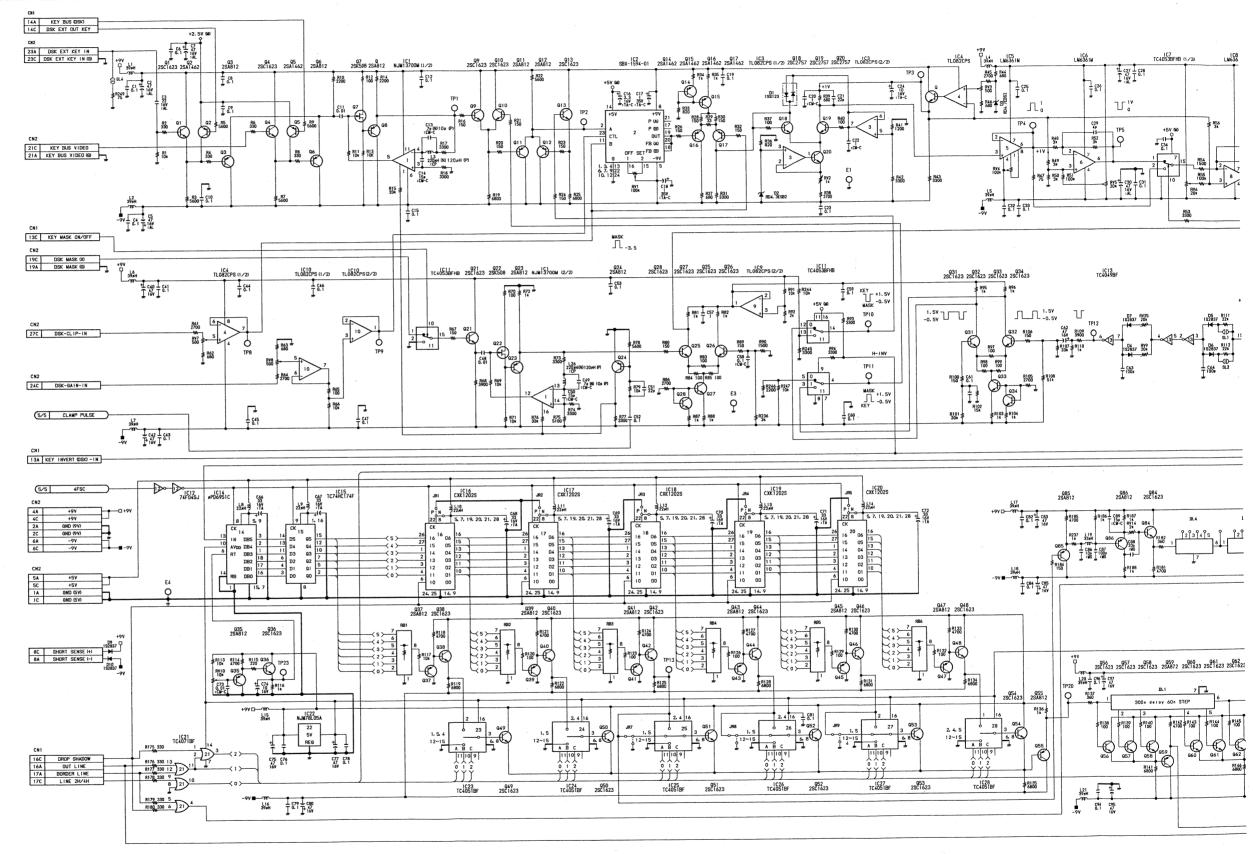
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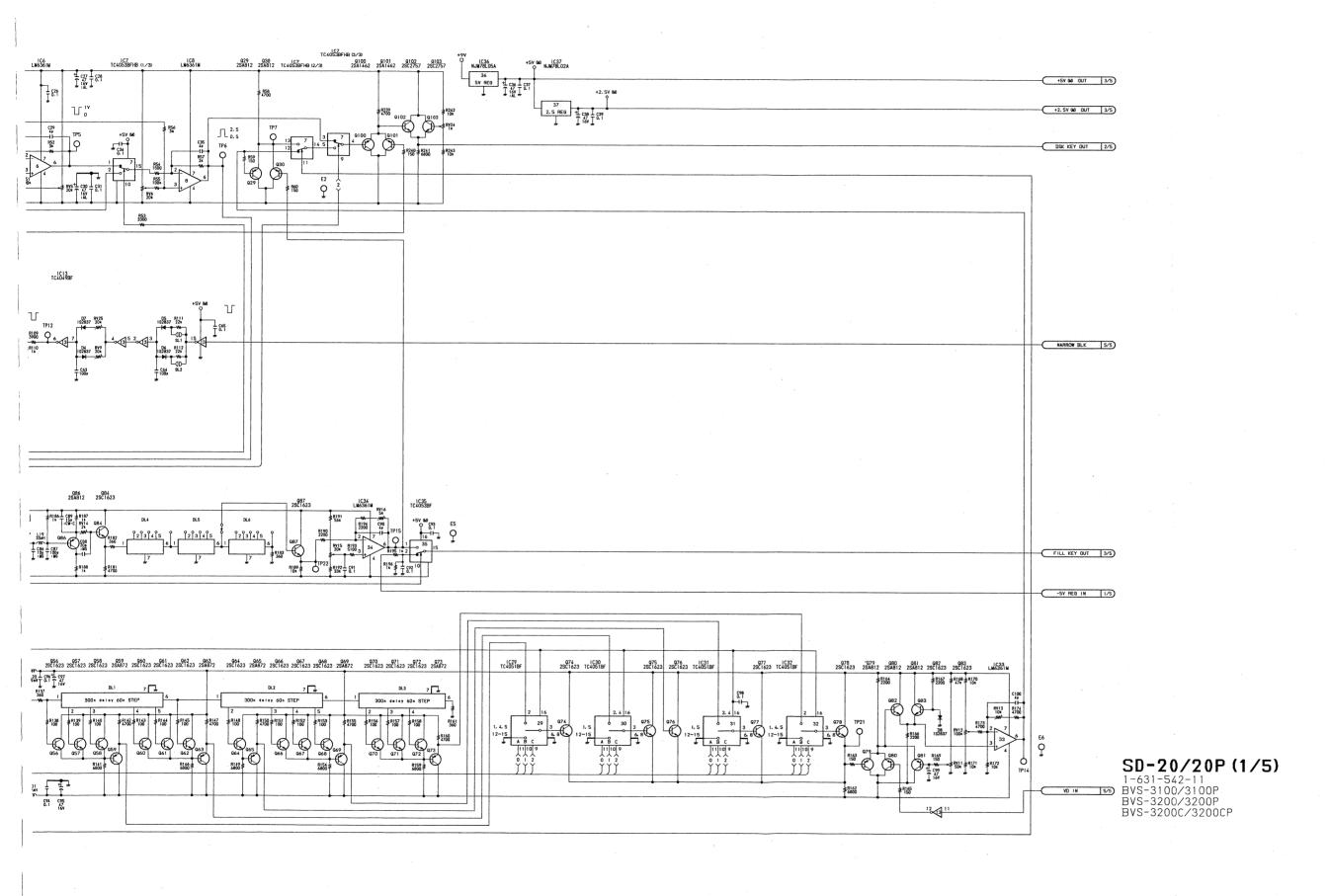


SD-20/20P (1/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



7-75

B-SYX133-SD20#10
A
B
C
D
F
G



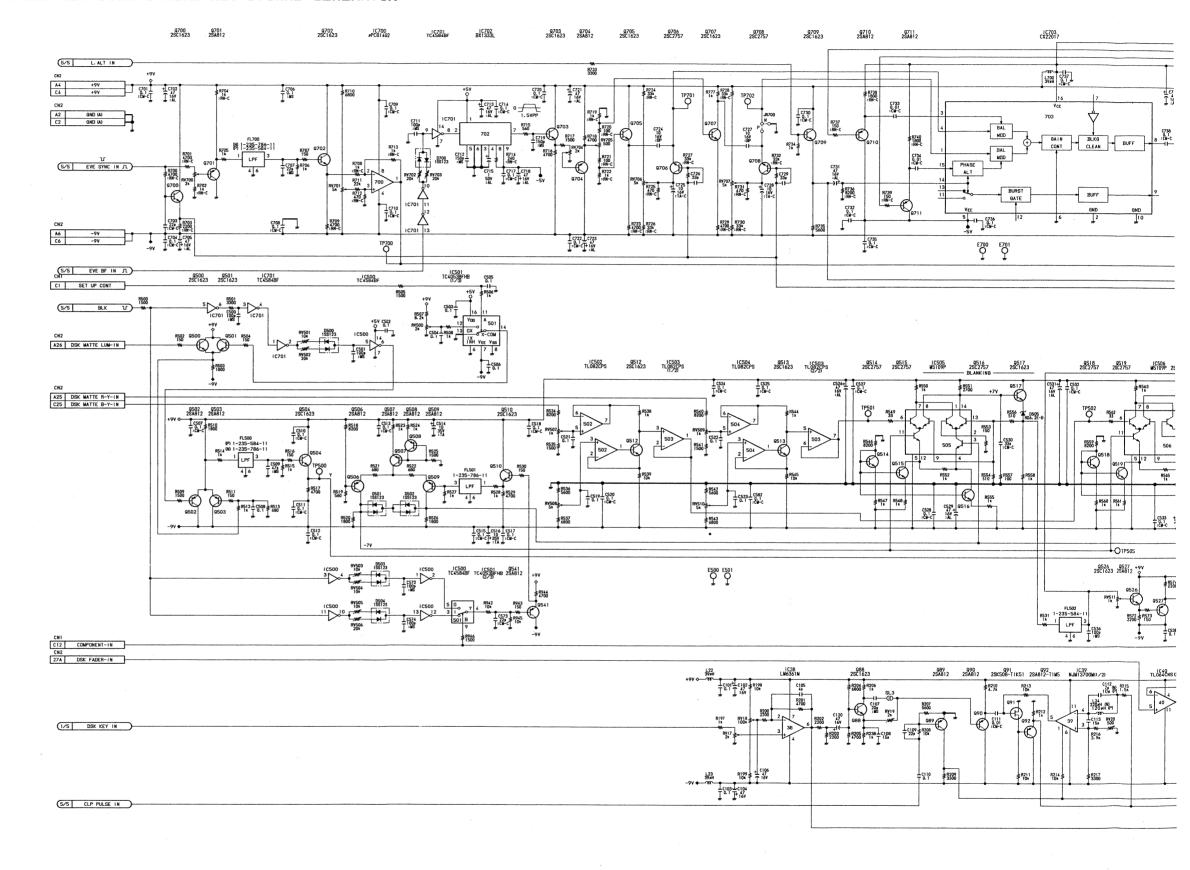
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SD-20/20P (2/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



7-83

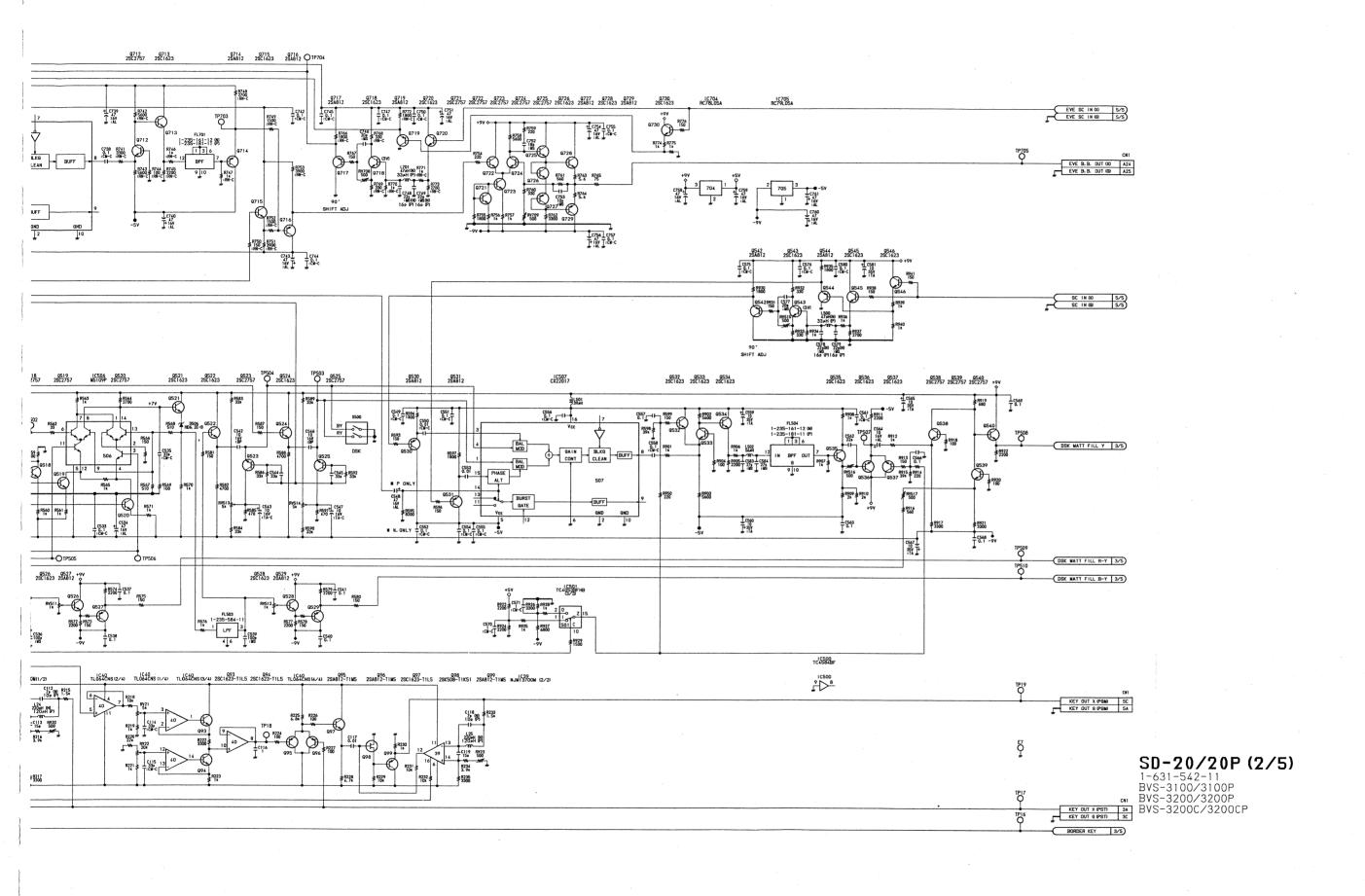
B-SYX133-SD20#2]

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1

F

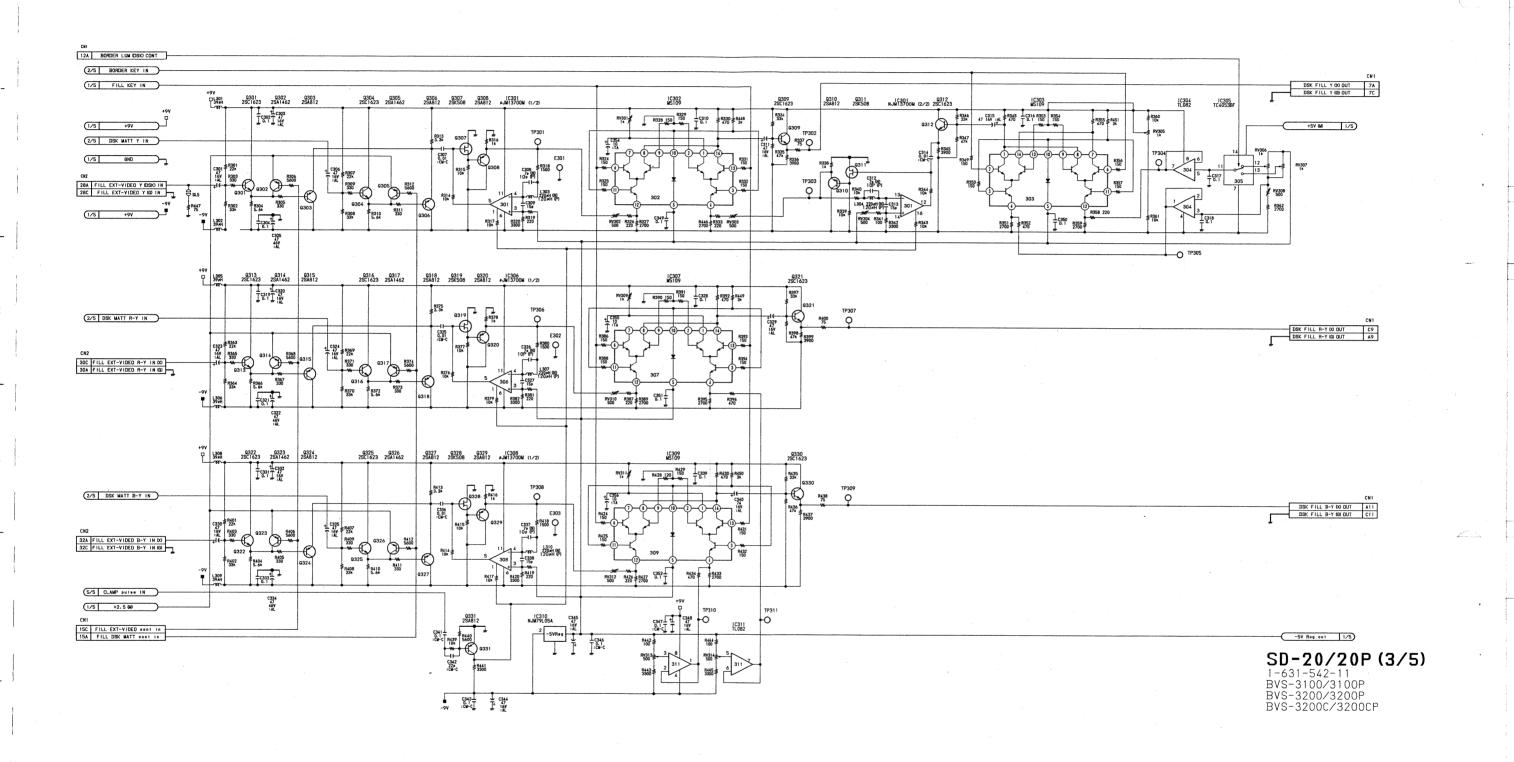
G



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SD-20/20P (3/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



7-89

7-90

Α

В

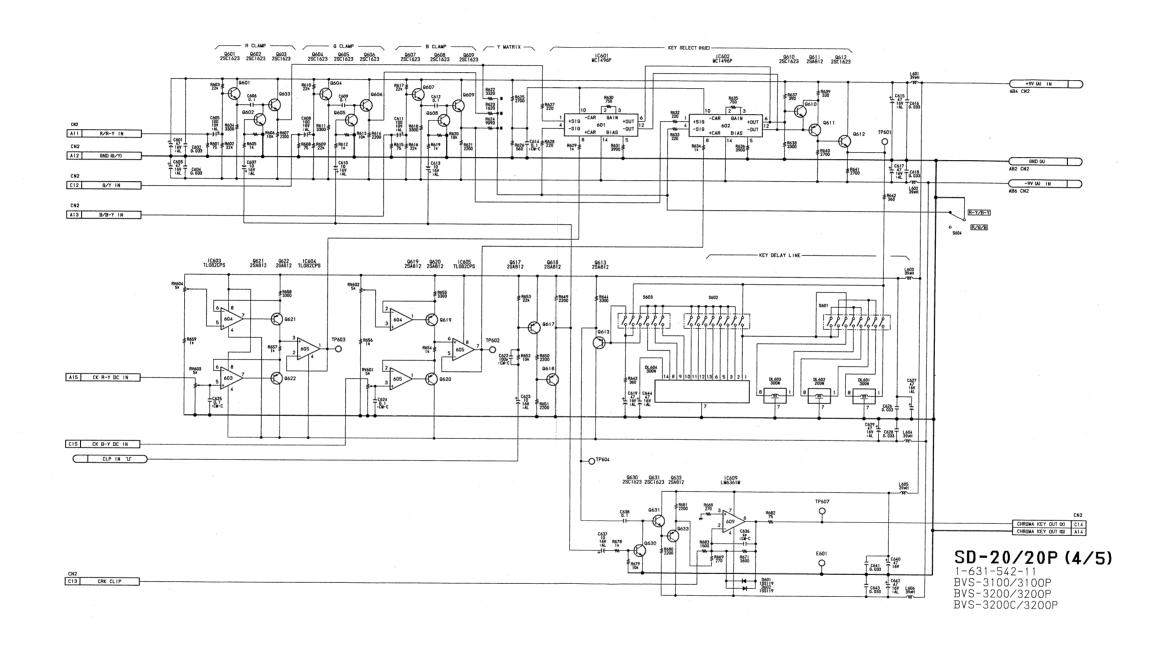
С

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Ε

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SD-20/20P (4/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR

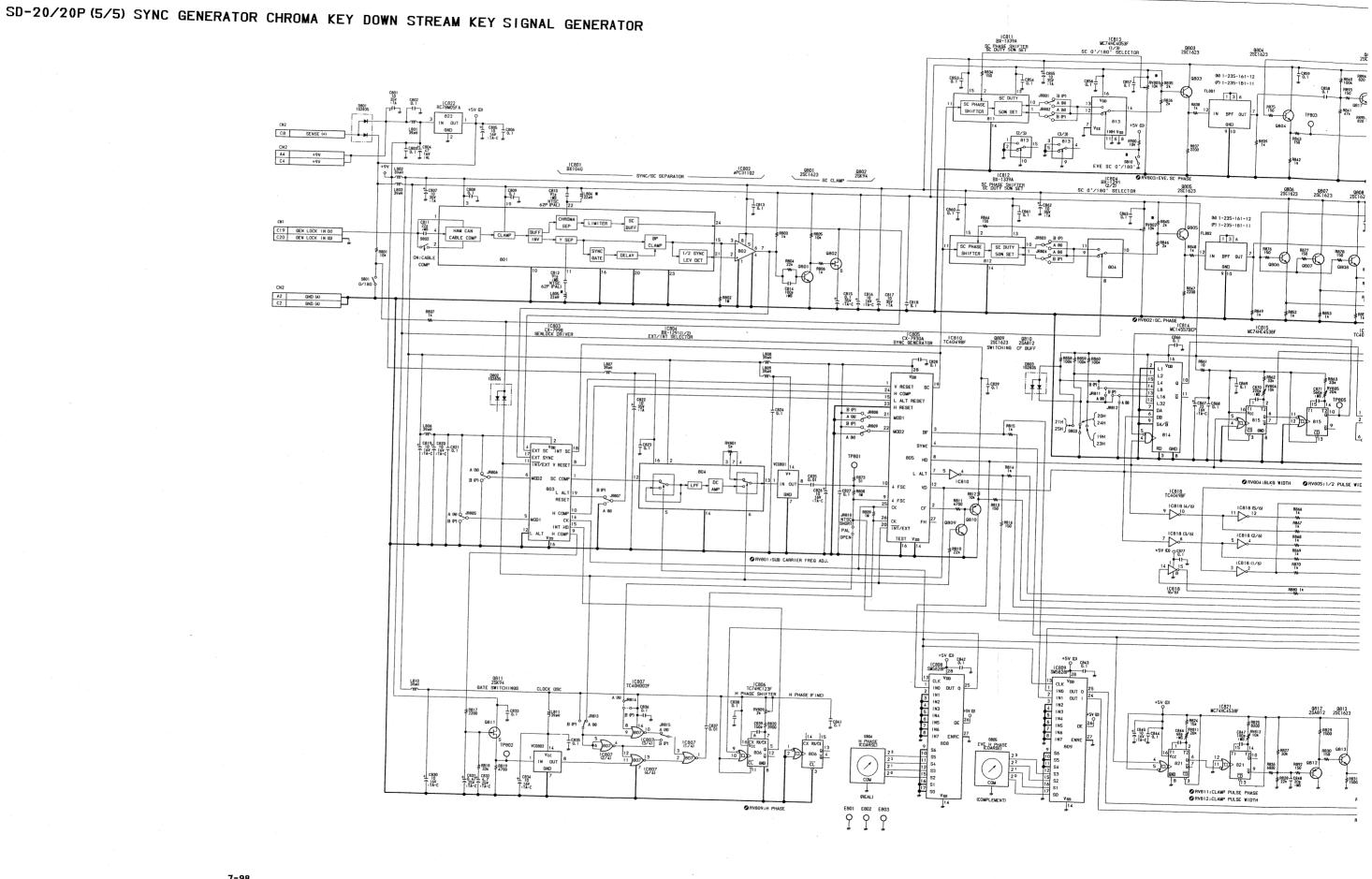


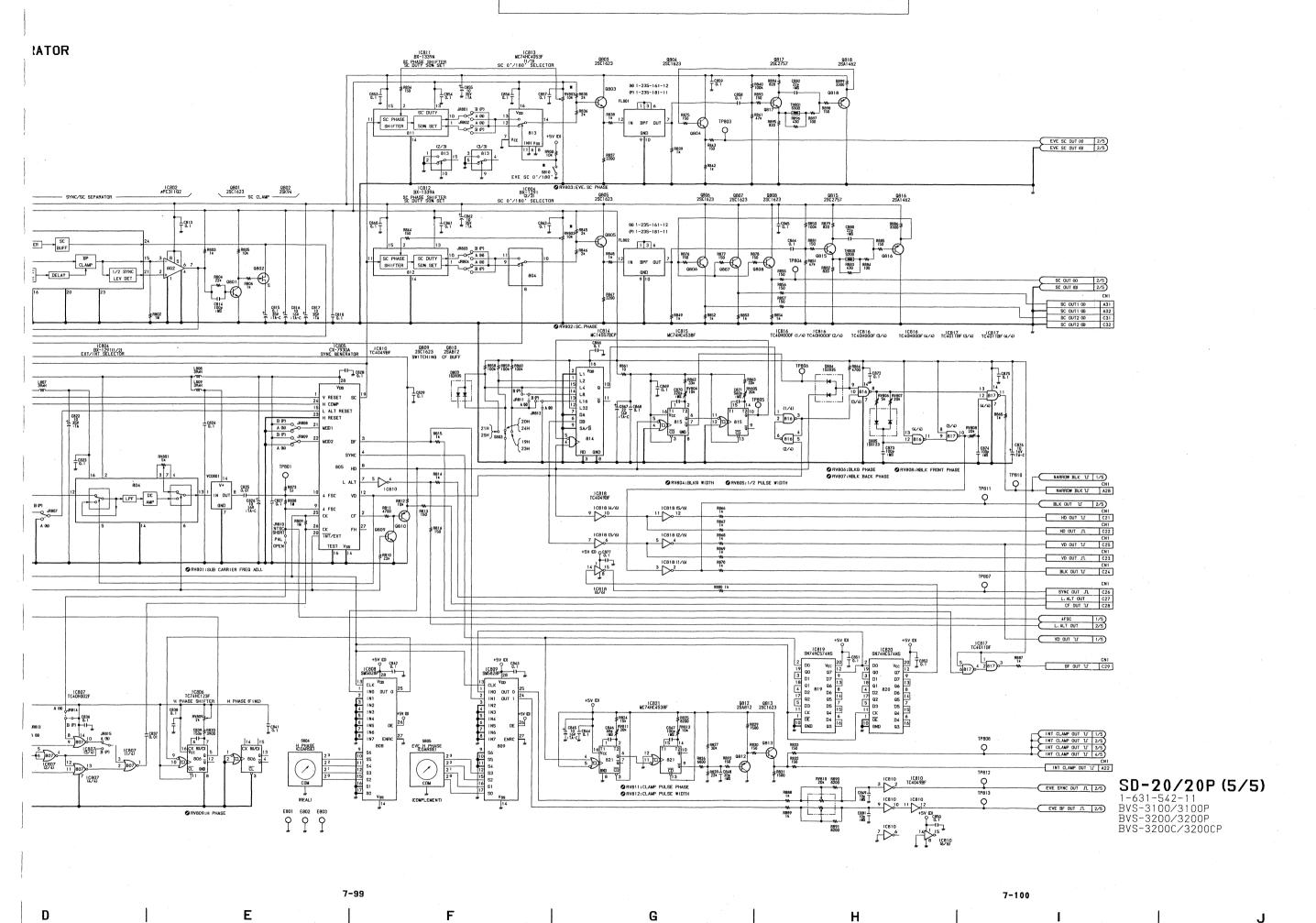
7-93

7-94

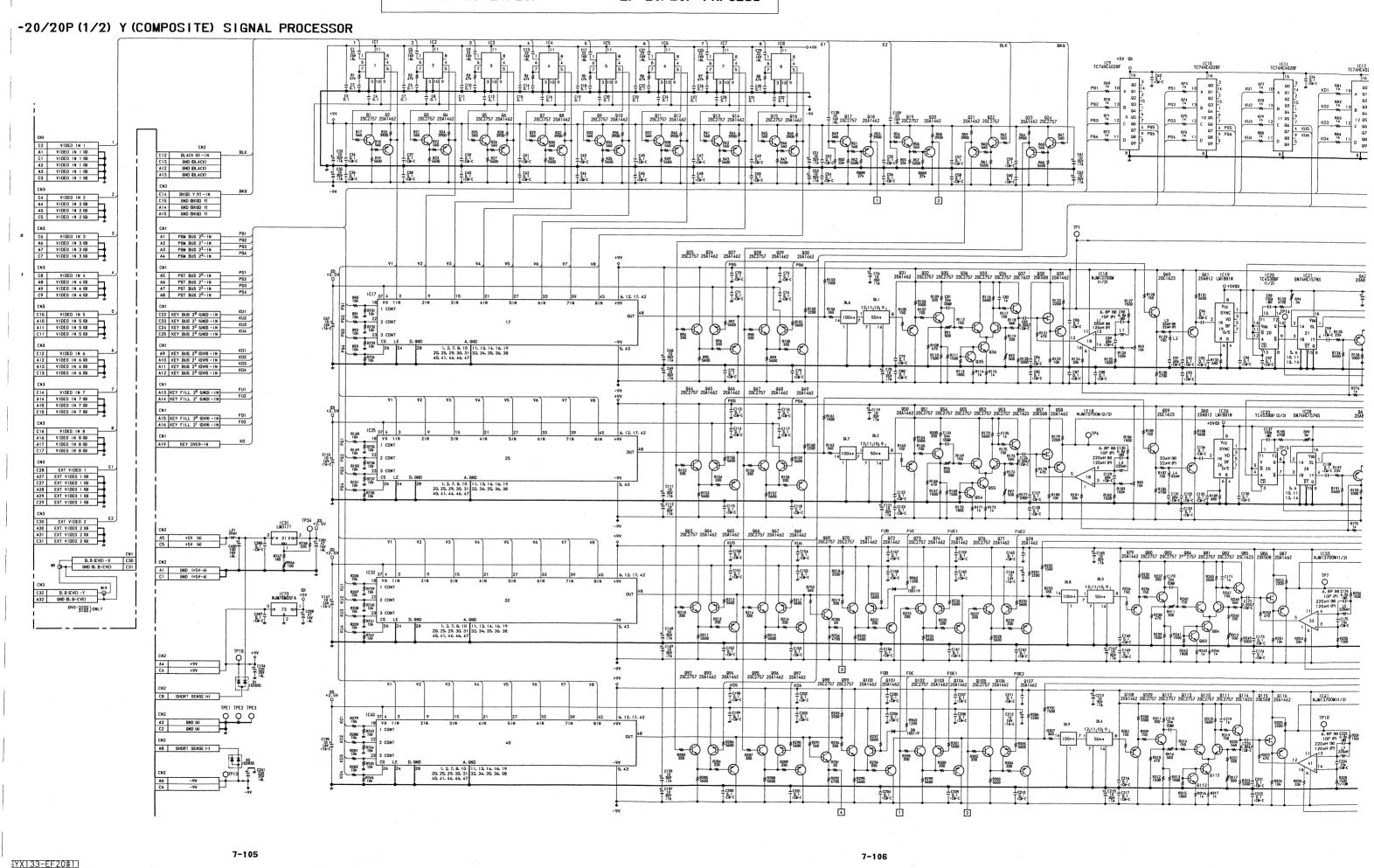
Ε

F

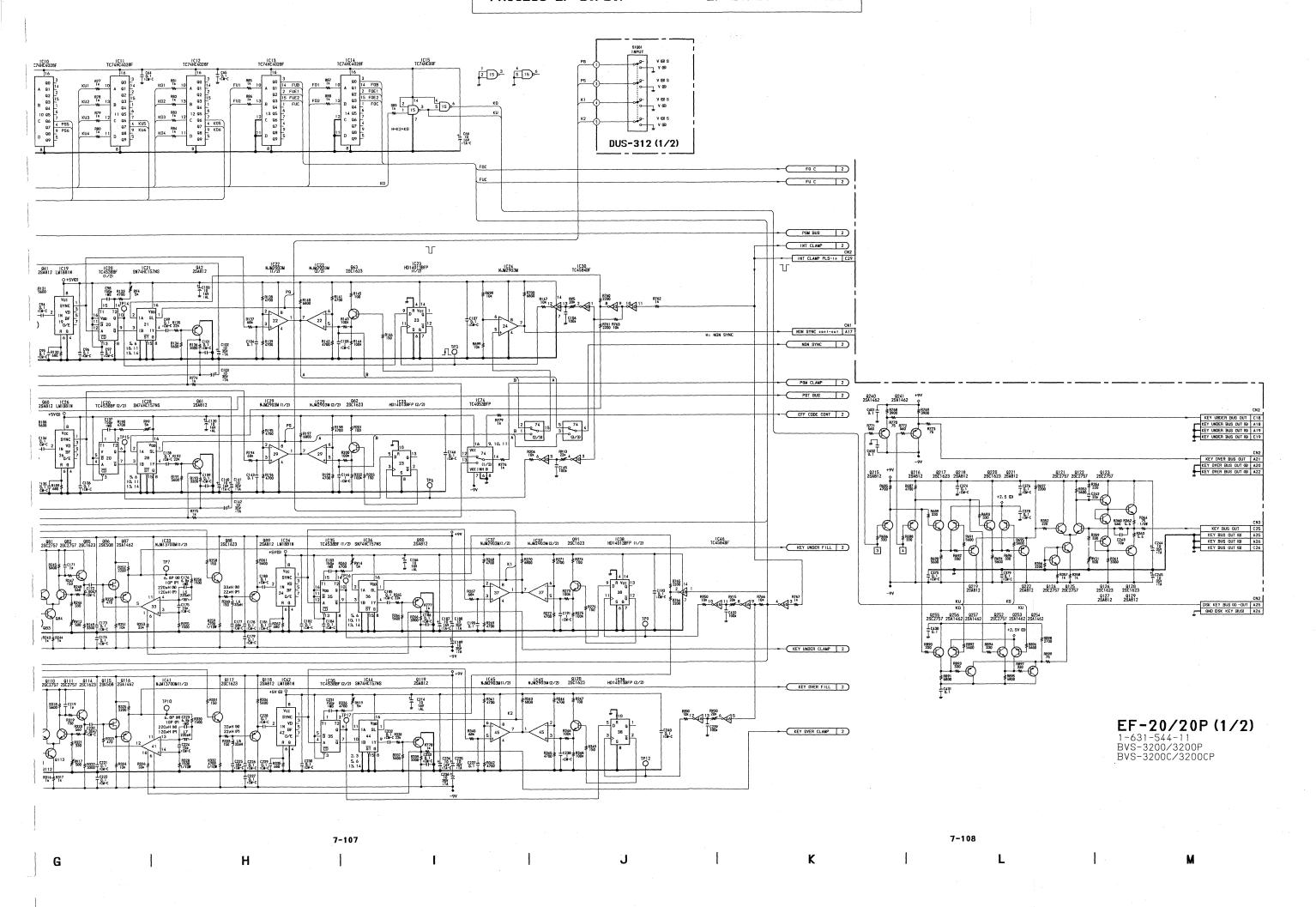


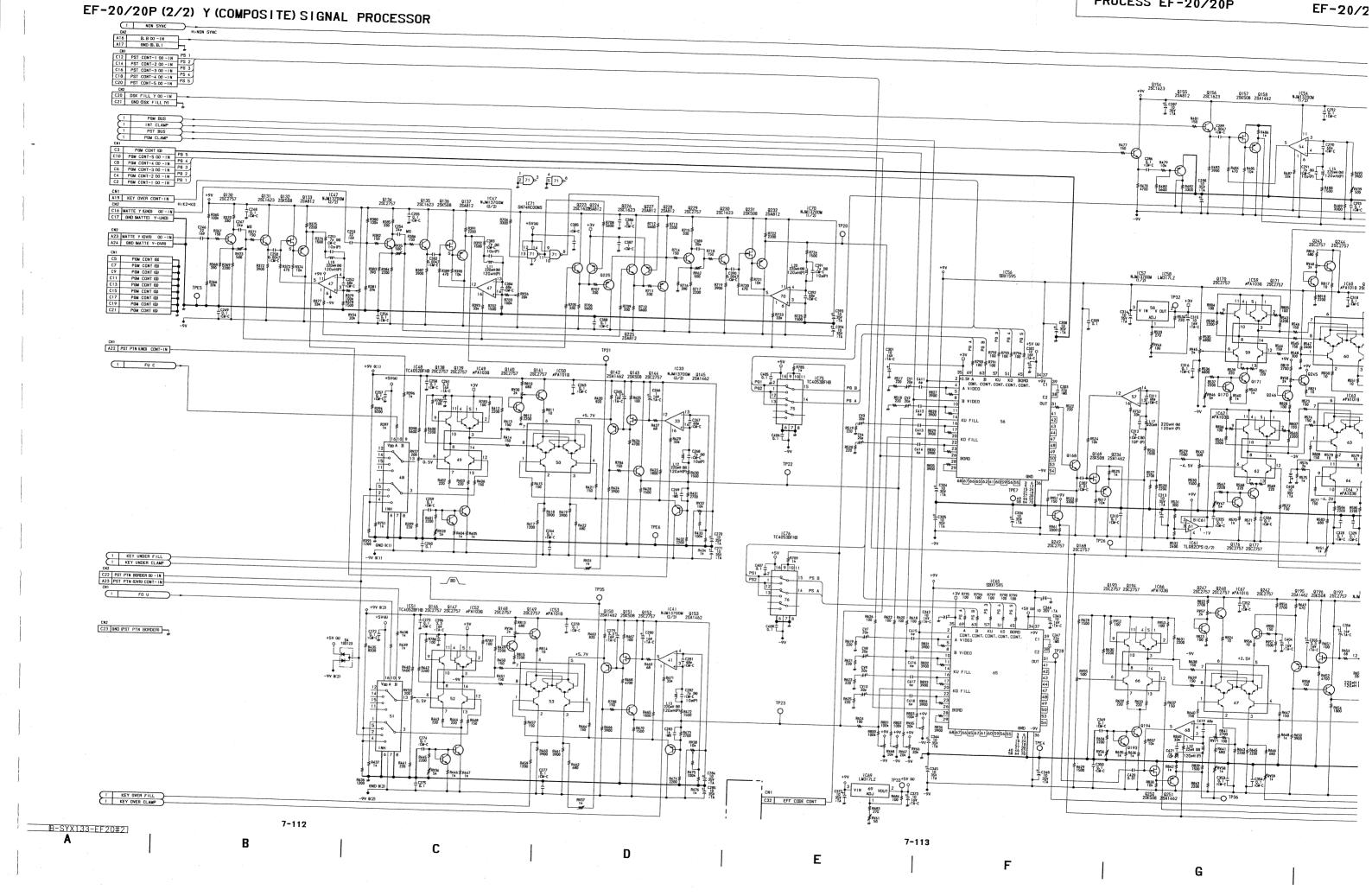


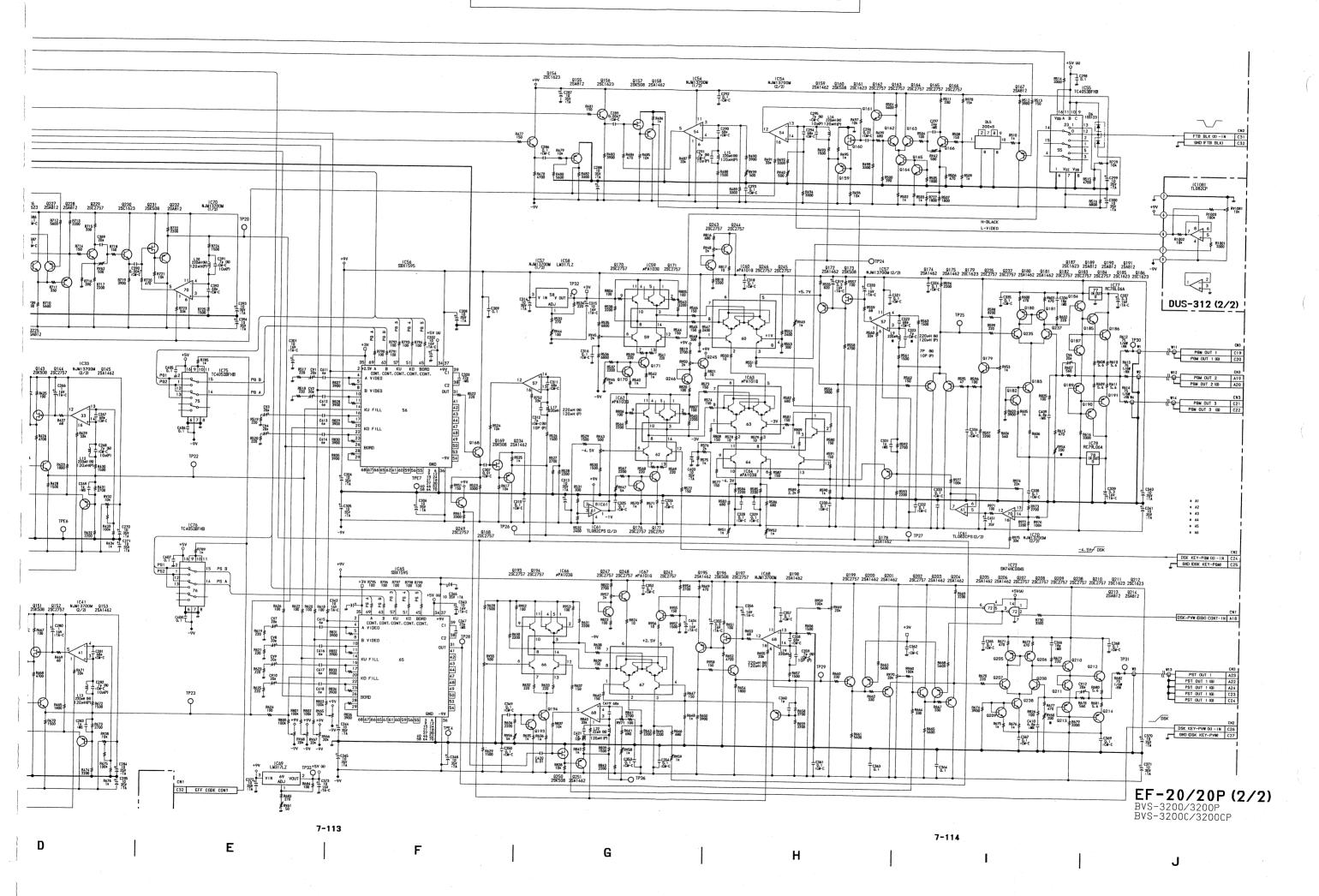
С

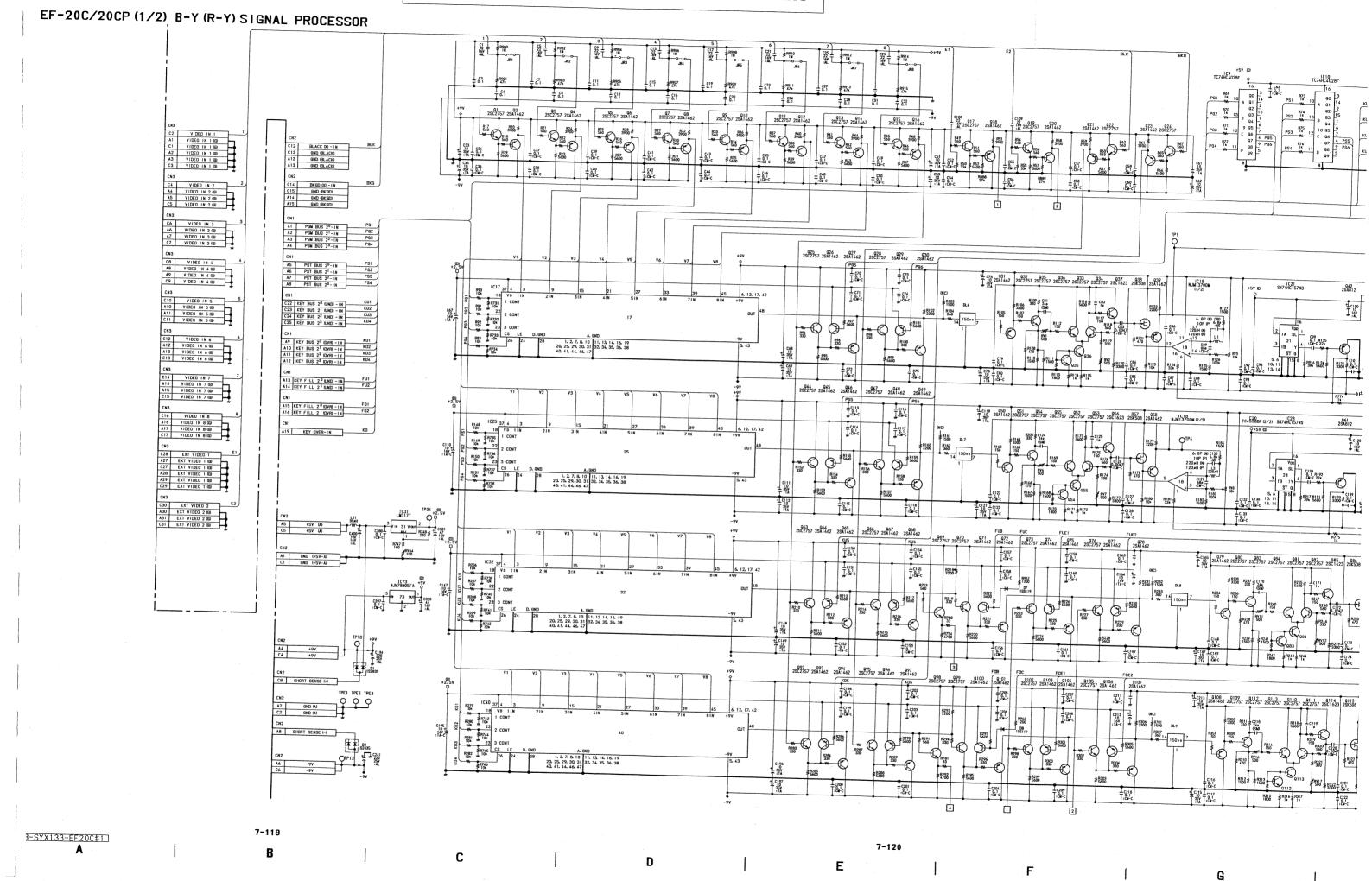


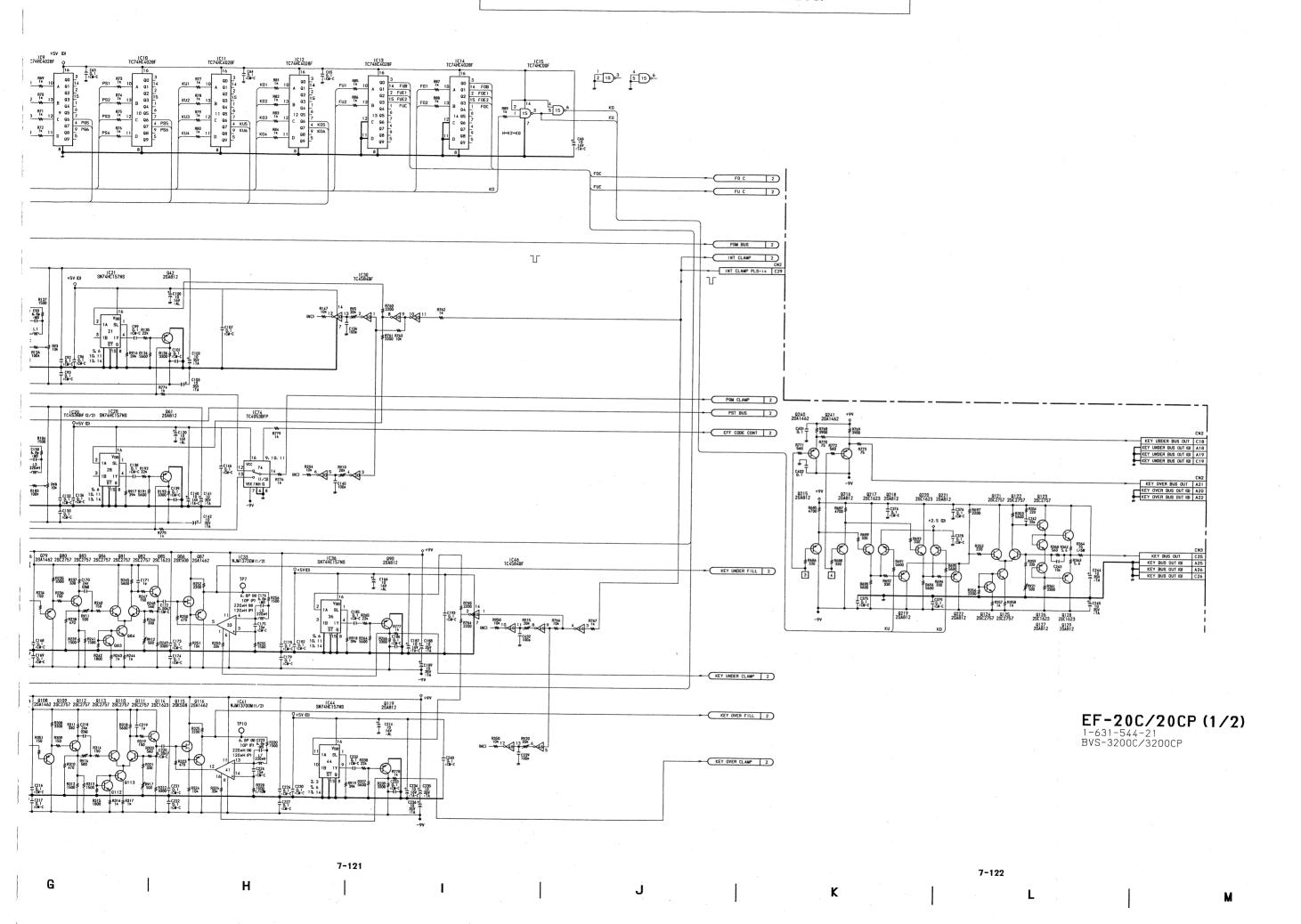
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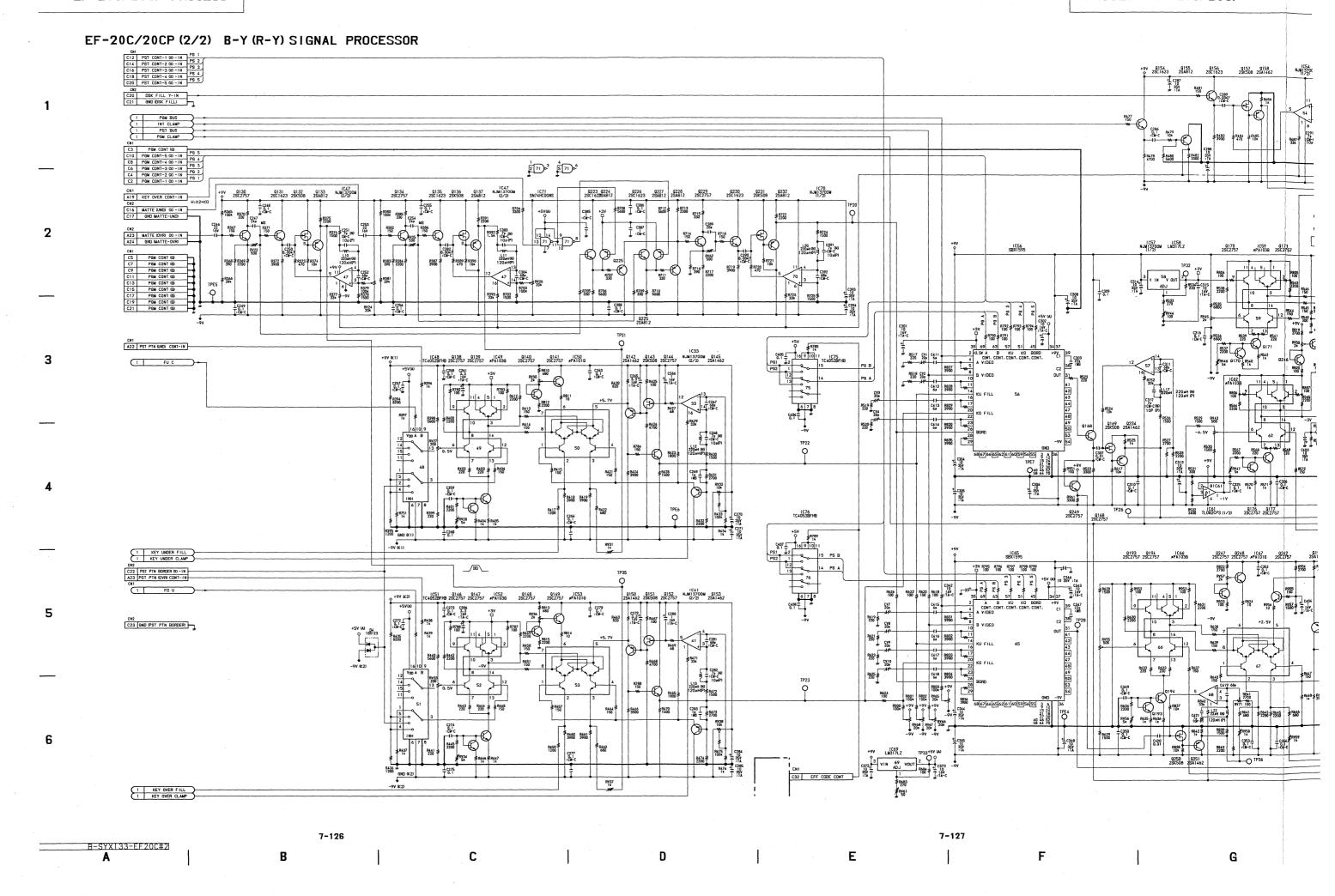


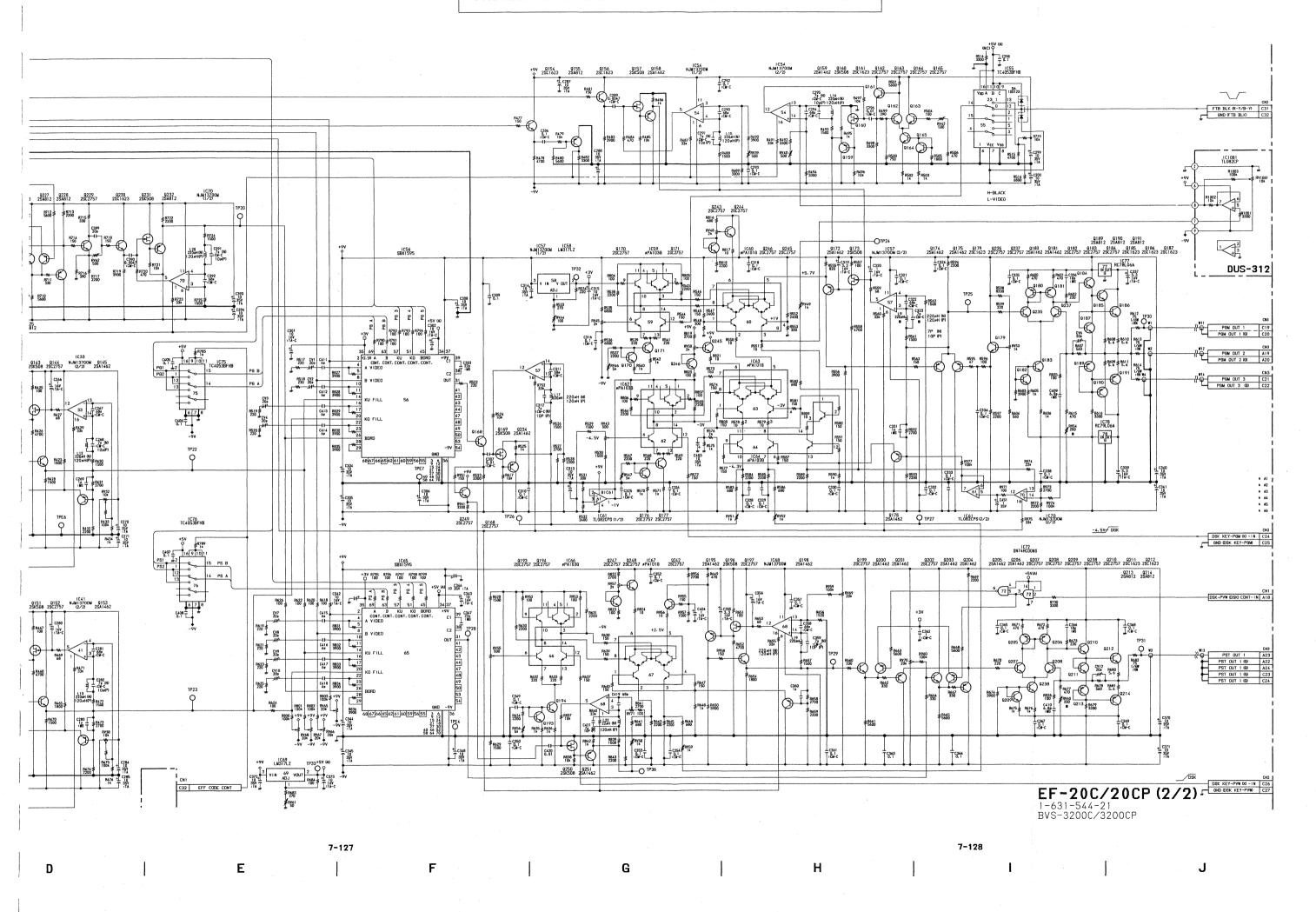




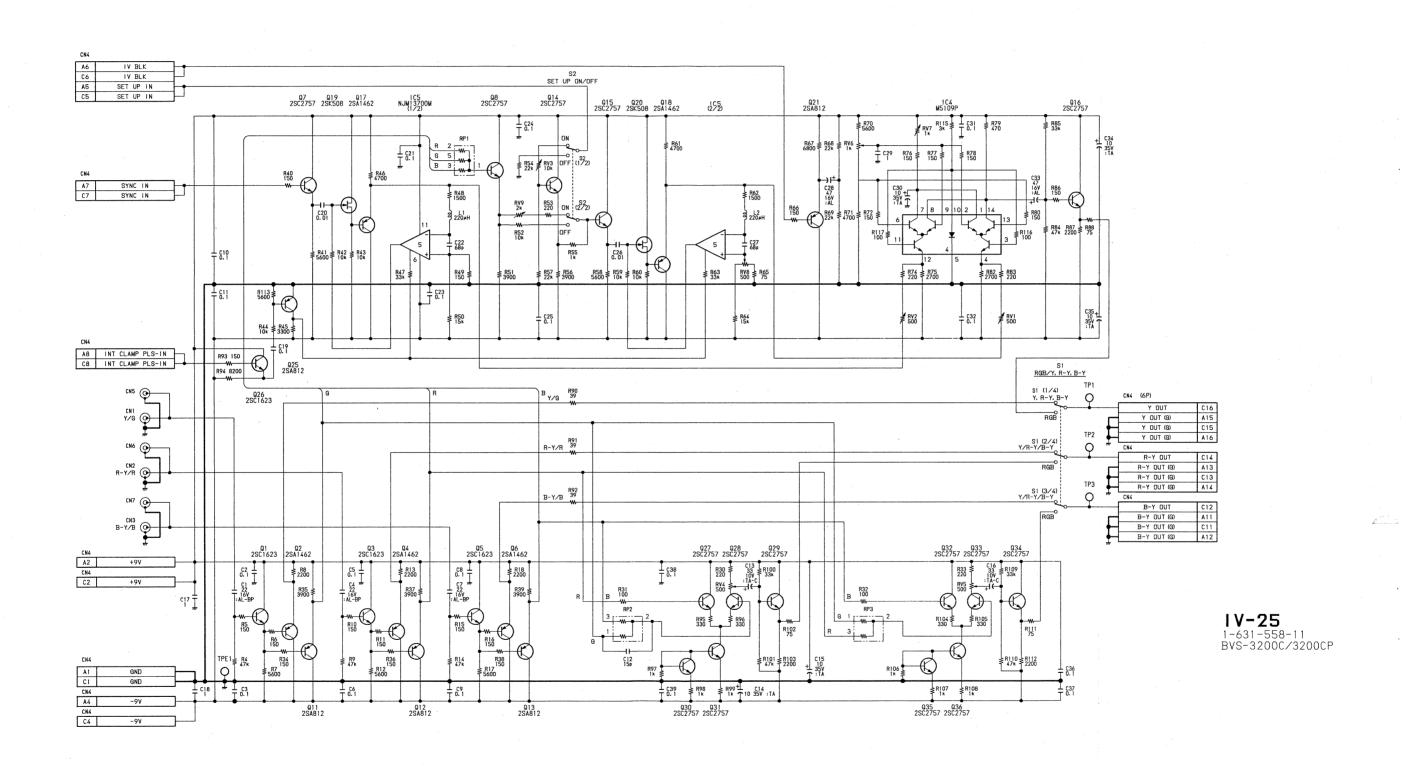








IV-25/25P MODE SET FOR INPUT VIDEO SIGNAL



7-131

B-SYX133-1V25-M

В

С

D

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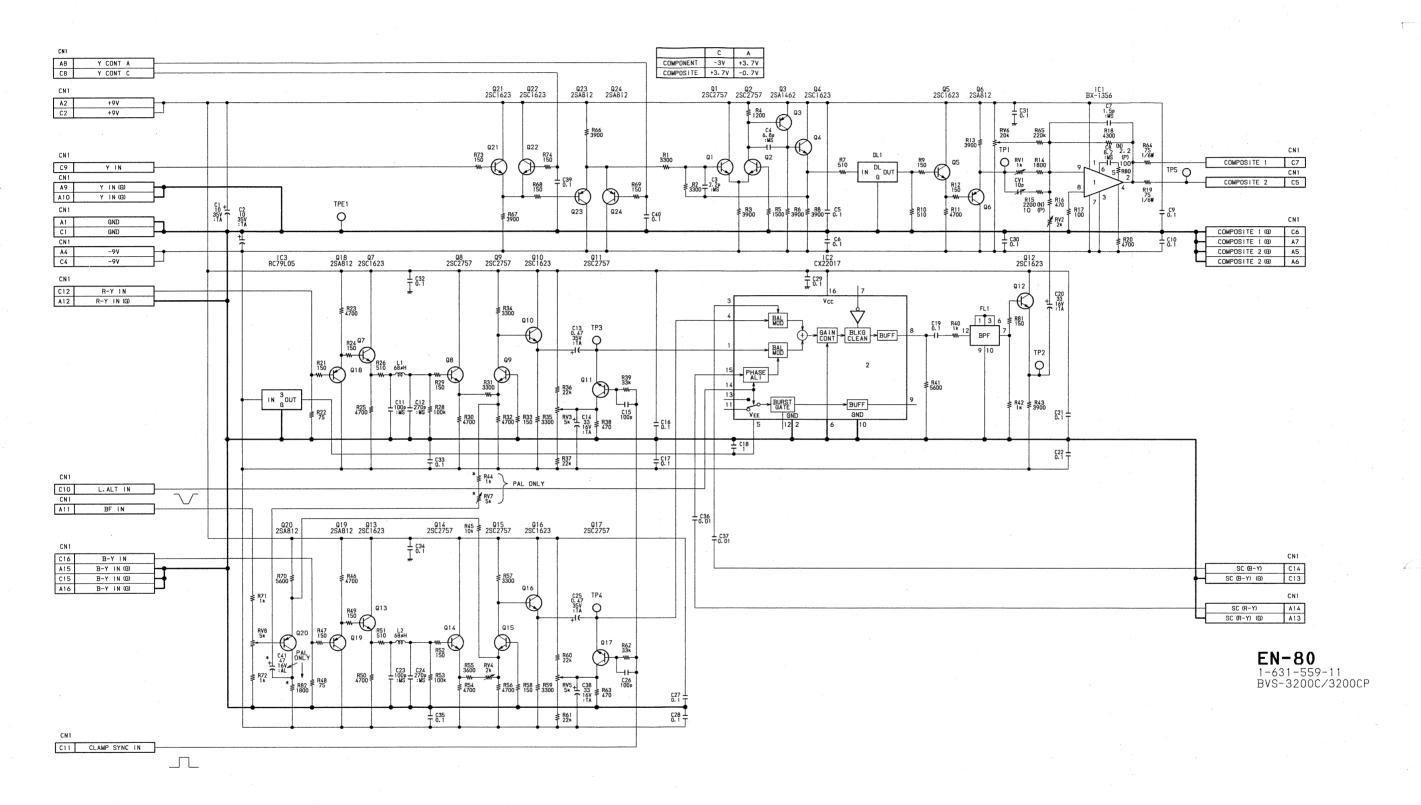
7-132

F

EN-80/80P ENCODER BOARD

2

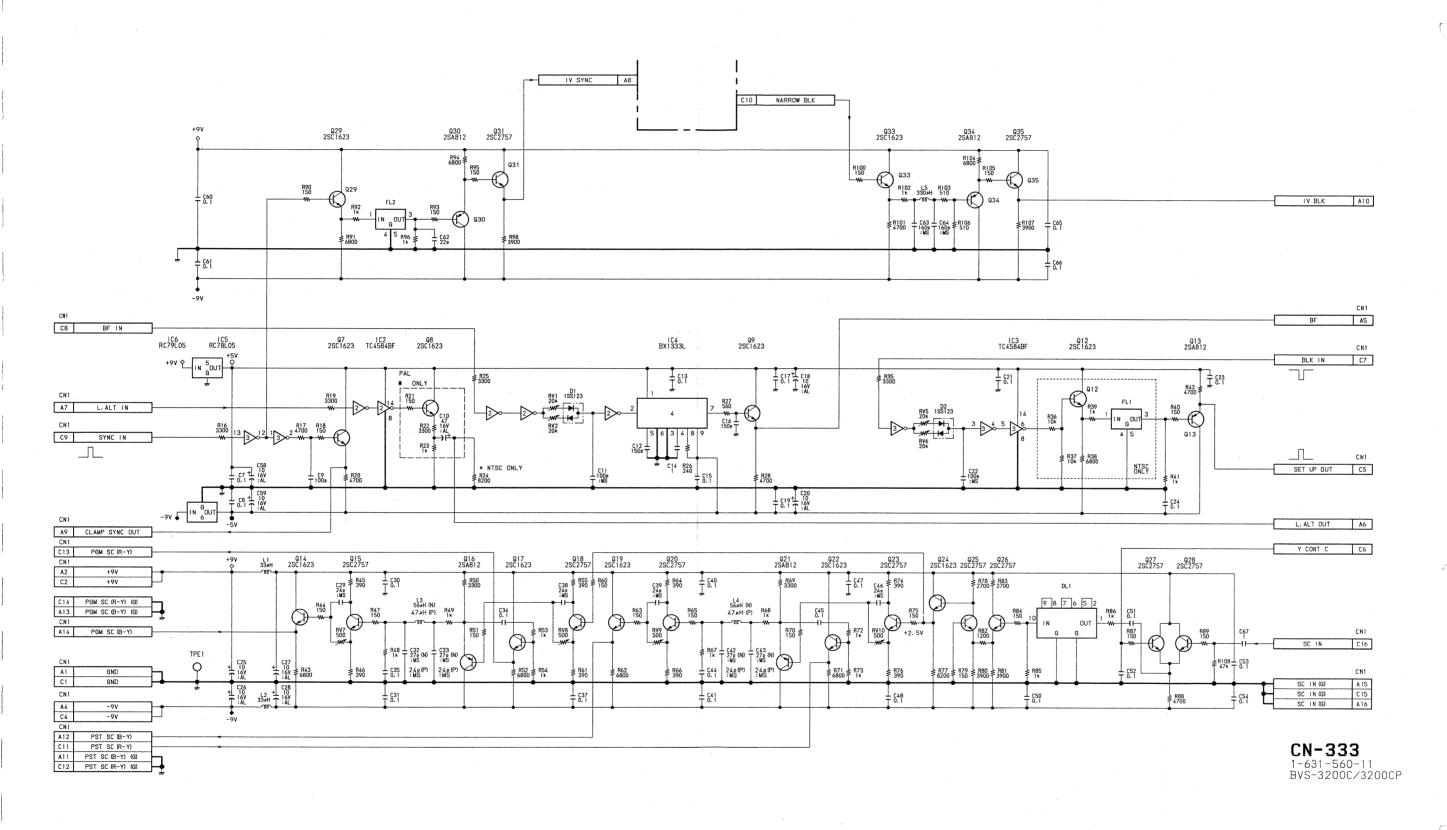
5



7-135

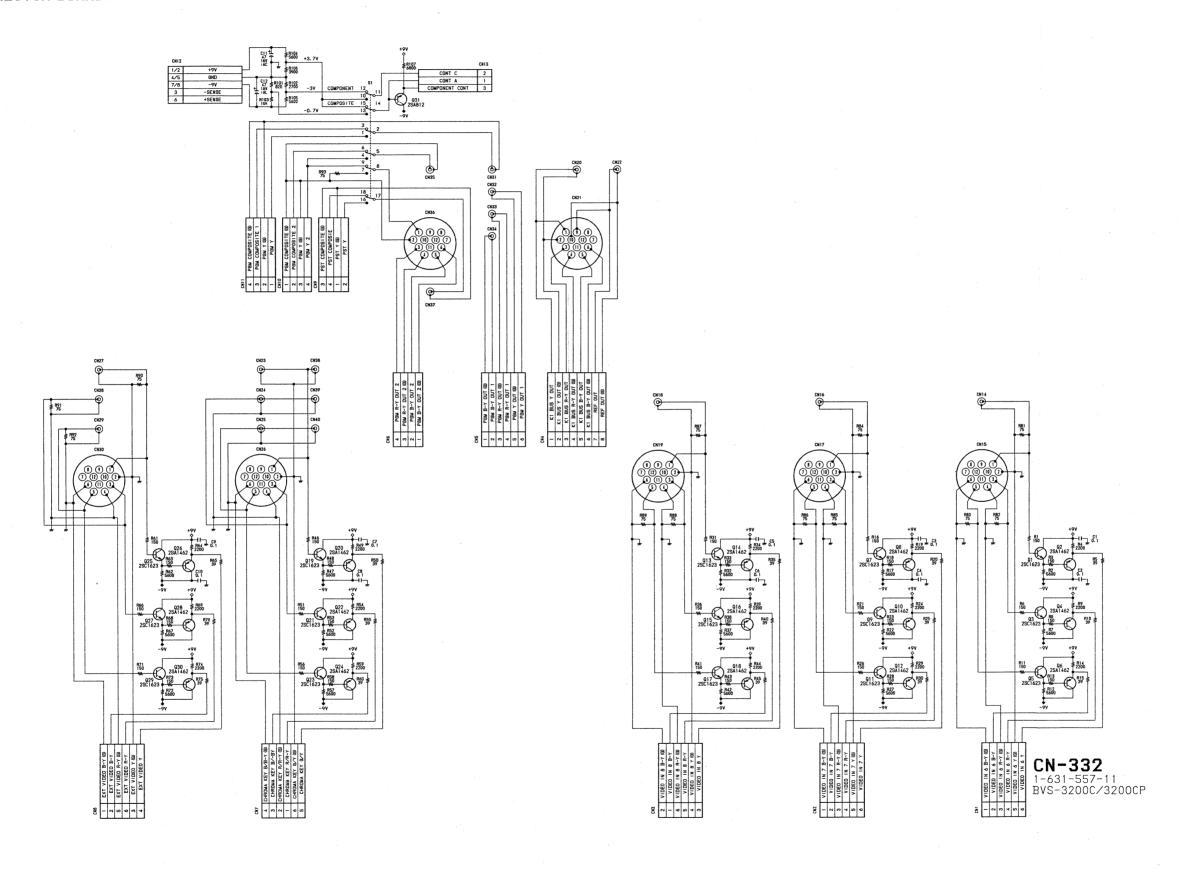
A B C D E F

CN-333/333P SYNC SEPARATOR



B-SYX133-CN333-M

CN-332 CONNECTOR BOARD



7-143

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С

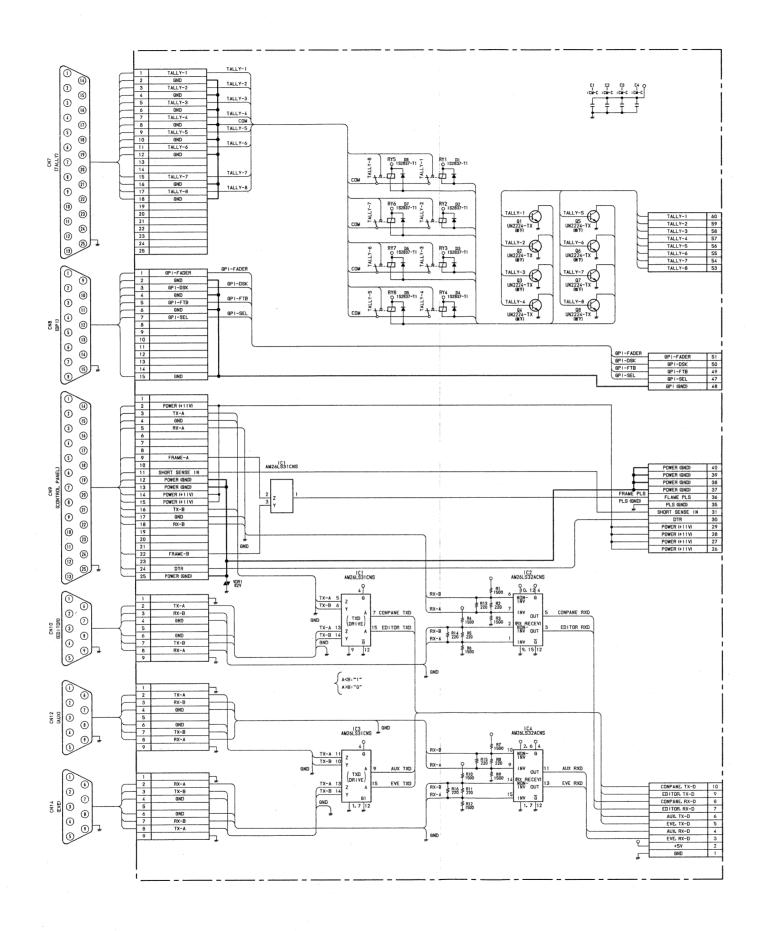
D

7-144

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CN-336 CONNECTOR BOARD



CN-336 1-631-556-11 BVS-3200C/3200CP

7-147

В

С

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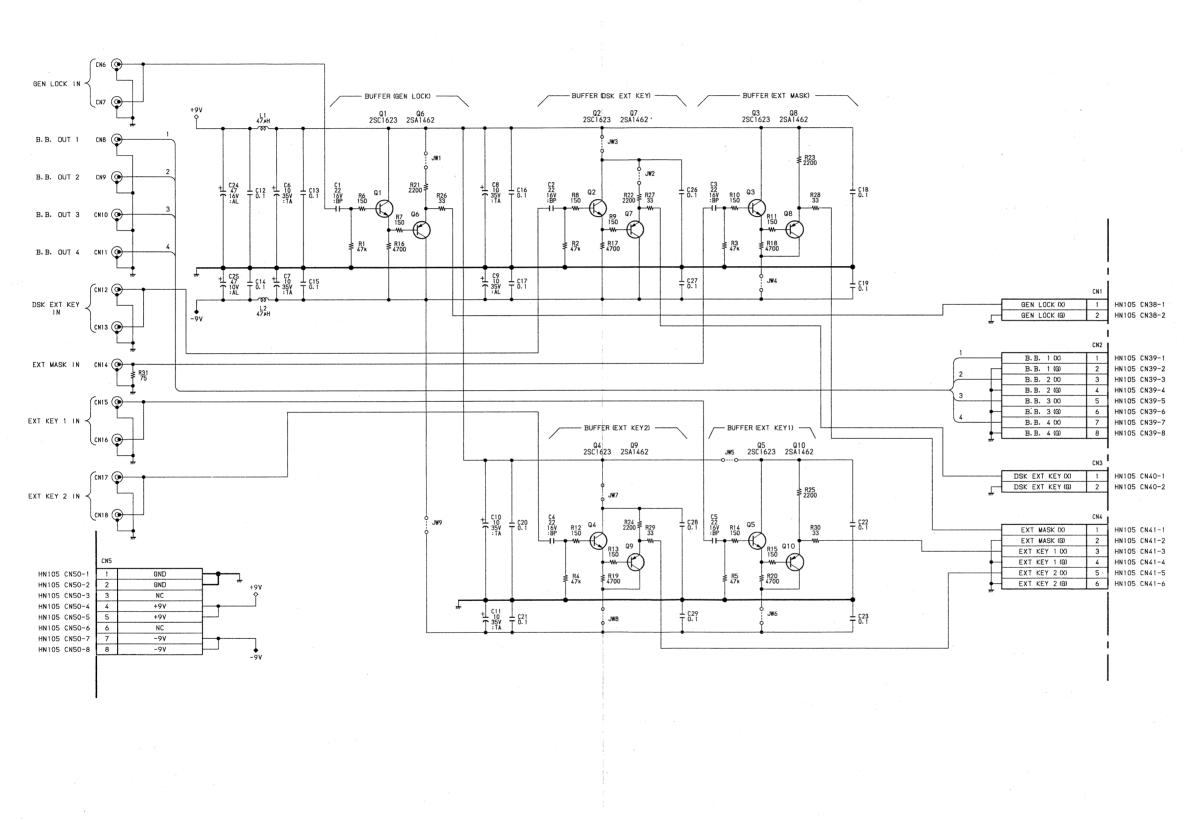
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7-148

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IB-SYX133-CN336

CN-330 CONNECTOR BOARD



CN-330 1-631-792-11 BVS-3200C/3200CP

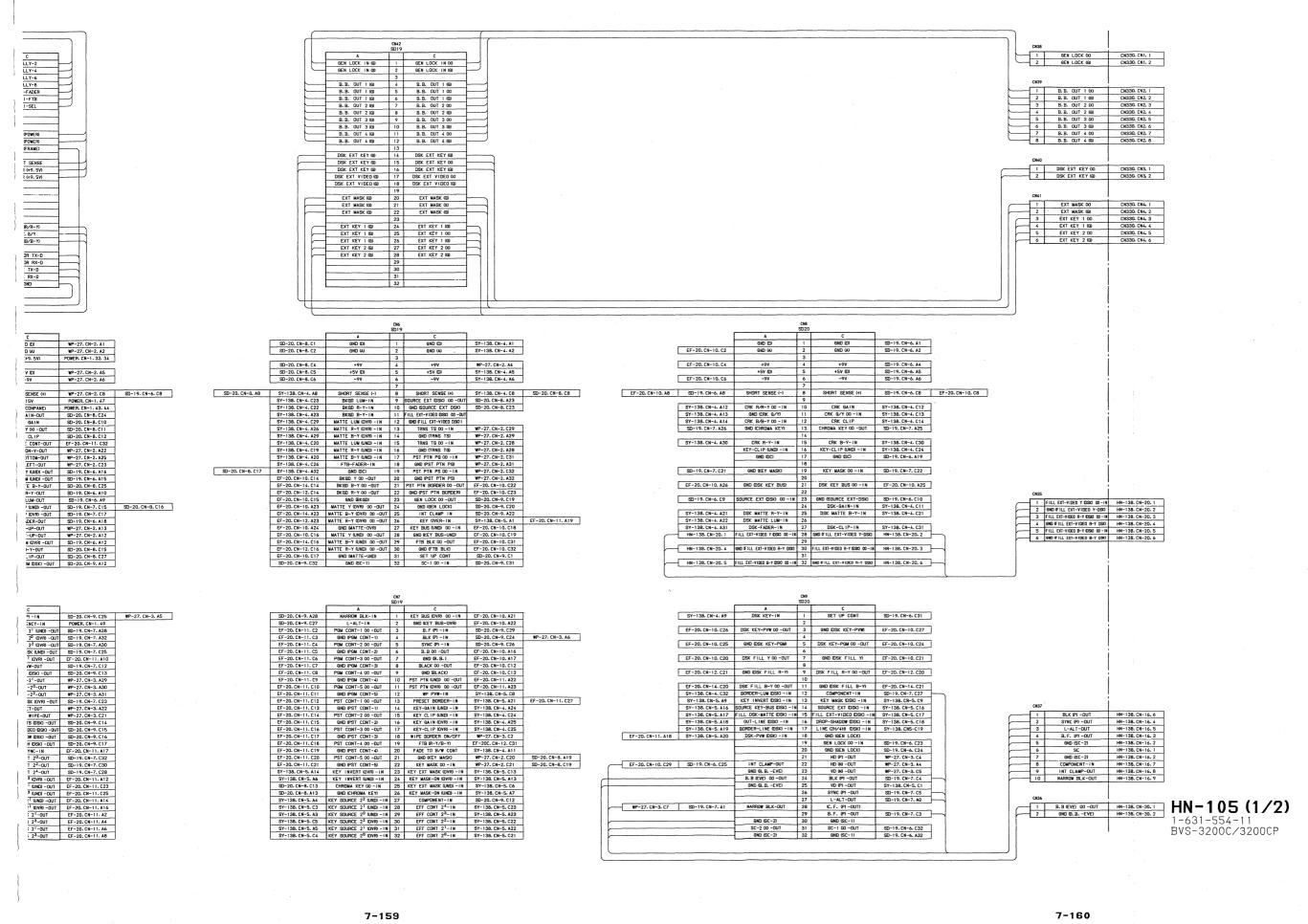
7-151 | B | C | D | E |

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B-SYX133-CN330-M

	HN-105(1/2) MOTHER BOARD							CN44	
1		CN45 1						A C TALLY-1 1 TALL	LY-4 LY-6 LY-8 -ADER -FTB
		CN-336. CN-1.10 10 CONPANE TX-D CN-336. CN-1.11 11 CN-336. CN-1.13 13 CN-336. CN-1.13 13 CN-336. CN-1.15 15 CN-336. CN-1.15 15 CN-336. CN-1.16 16 CN-336. CN-1.17 17 CN-336. CN-1.18 18 CN-336. CN-1.19 19 CN-336. CN-1.19 19 CN-336. CN-1.19 19 CN-336. CN-1.20 20 CN-336. CN-1.20 20						GND POWER 11 GND PC 9	POWERO RAMEI SENSE (+9. SV)
2		CN-336. CN-1. 22 22 CN-336. CN-1. 23 23 CN-336. CN-1. 24 24 CN-336. CN-1. 25 25 CN-336. CN-1. 26 26 CN-336. CN-1. 27 27 CN-336. CN-1. 27 27 CN-336. CN-1. 28 28 CN-336. CN-1. 29 29 CN-336. CN-1. 29 29 CN-336. CN-1. 29 29 CN-336. CN-1. 30 30 CN-1. 30 50 CN-336. CN-1. 30 30 CN-336. CN-1. 30						CK. R/R-Y 24 GMD FR/ GMS GM/Y) 25 CK. C. CK. B/B-Y 26 GMD GW/ CCK. B/B-Y 27 CONPANE TX-D 28 EDITOR AUX TX-D 30 EVET AUX TX-D 31 EVE F +5V 32 GM	0/Y //B-Y) R TX-D R RX-D RX-D RX-D
		CN-336. CN-1. 34 34 CN-336. CN-1. 35 35 GND FRAMED CN-336. CN-1. 36 36 FRAME PLS CN-336. CN-1. 37 37 GND POWERD CN-336. CN-1. 38 38 GND POWERD CN-336. CN-1. 39 39 GND POWERD CN-336. CN-1. 30 39 GND POWERD CN-336. CN-1. 40 40 GND POWERD CN-336. CN-1. 41 41 CN-336. CN-1. 41 41 CN-336. CN-1. 43 42 CN-336. CN-1. 43 44		SY-138. CN-4. C2 SD-19. CN-6. C4 SY-138. CN-4. C5	SND (A)	CN-1, 29, 30 N-1, 1-10, 31 CN-1, 29, 30 CN-1, 13-17 CN-1, 37, 38		CN4 SY138 C SD-19. CN-6. C1 SD-19. CN-6. C2 SD-19. CN-6. C2 SD-19. CN-6. C2 SD-19. CN-6. C5	0 (A) WP-27. CN-2. A2 -9. 5V) POWER. CN-1. 32, 34 (D) WP-27. CN-2. A5
3		CN-336. CN-1. 45 45 CN-336. CN-1. 46 46 CN-336. CN-1. 47 47		SY-138. CN-4. A8 POWER. CN-1. 46 SHOR	+5V ED 7 +5V ED POWER. RT SENSE (-) 8 SHORT SENSE (+) POWE 9 10	N-1. 21-24. 26 (Ch-1. 37. 38 R. Ch-1. 48 SY-138. Ch-4. C8 8. Ch-4. A28 8. Ch-4. A27	SD-19. CN-6. A	SD-19. CH-6. C6	ENSE (+) MP-27.CM-2.CB SI SY POWER. CN-1.47 ONPANE] POWER. CN-1.43.44 IN-OUT SD-20.CM-3.C24 OAIN SD-20.CM-3.C10 OO -OUT SD-20.CM-3.C11 CLIP SD-20.CM-8.C12 CONT-OUT EP-20.CM-1.C32
<u></u>		CN-336. CN-1. S5 55 TALLY-6 CN-336. CN-1. S5 55 TALLY-5 CN-336. CN-1. S7 77 TALLY-4 CN-336. CN-1. S8 58 TALLY-2 CN-336. CN-1. S8 59 TALLY-2 CN-336. CN-1. S9 59 TALLY-2 CN-336. CN-1. S9 50 TALLY-2 CN-336. CN-1. S9 50 TALLY-1 CN-336. CN-1. S9 50 TALLY-1 CN-336. CN-1. S8 50 TALLY-1	2.02	SY-138. CN-4. A17 MAS SY-138. CN-4. C17 MASK	23 MASK LEFT-IN SY-13 ISK TOP-IN 24 MASK RIGHT-IN SY-13 K BOTTOM-IN 25 ASPECT-IN SY-13			WP-27. CH-2. A24 MASK TOP-OUT 17 MASK BOT WP-27. CH-2. A24 MASK RIGHT-OUT 18 MASK RIGHT WP-27. CH-2. C25 ASPECT-OUT 19 MATTE R-Y SD-19. CN-6. A17 MATTE B-Y UNUD-OUT 20 MATTE R-Y SD-20. CN-8. A25 DSK MATTE R-Y-OUT 21 SSK MATTE SD-20. CN-8. A26 DSK MATTE LM-OUT 22 BKOD R-SD-19. CN-6. A11 BKOD B-Y-OUT 23 BKOD B-Y-OUT 23 BKOD B-Y-OUT 24 BKOD B-Y-OUT 25 BKOD B-Y-OUT 26 BKOD B-Y-OUT 27 BKOD B-Y-OUT 27 BKOD B-Y-OUT 28 BKOD B-Y-OUT 29 BKOD B-Y-OU	TTOM-OUT WP-27, CN-2, A25 EF-OUT WP-27, CN-2, C23 CMMD-OUT SD-19, CN-6, A16 CMMD-OUT SD-19, CN-6, A16 CMMD-OUT SD-19, CN-6, A16 CMMD-OUT SD-19, CN-6, A25 EV-0UT SD-19, CN-6, A26 CMD-OUT SD-19, CN-6, A9 CMD-OUT SD-19, CN-7, C17
4		CH-30. CH-5. 7 7 -9V -1 -2 -2 -4 -3 -3 -4 -3 -4 -4 -3 -3 -4 -3 -4 -4 -3 -4 -3 -4 -4 -3 -4 -4 -3 -4 -4 -3 -4 -4 -3 -4 -4 -3 -4 -4 -3 -4 -4 -4 -3 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	2. C2 2. C2 2. C2 2. C2 2. C2 2. C2 2. C2	SD-19. CN-6. C16 GND SD-19. CN-6. C14 GND SD-19. CN-6. C18 GND	QRO DCI 26	9. CN-6. C17		\$\frac{1}{3}\frac{1}\frac{1}{3}\f	-UP-OUT WP-27. CN-2. A13 -UP-OUT WP-27. CN-2. A12 -UP-OUT SD-19. CN-6. A12 -Y-OUT SD-20. CN-8. C15
		NH-138. Ch-21.2 9 SND (-9V) 3 12 13 49V WP-27. Ch-2 13 149V WP-27. Ch-2 14 149V WP-27. Ch-2 15 149V WP-27. Ch-2 15 149V WP-27. Ch-2 16 149V WP-27. Ch-2 17 180	2. C4 2. C4 2. C4 2. C4	SY-138. CN-5. C1 V	VD (P) -1 N 5 VD (N) -1 N SD-24 BLK-1 N 6			EF-20. CN-11. A9 KEY BUS 2º (DVP) -OUT 2 EMERGE SD-19. CN-7. A29 KEY SDURCE 2º ONDO -OUT 3 KEY SOURCE 2 SD-19. CN-7. A27 KEY SOURCE 2º ONDO -OUT 4 KEY SOURCE 2 SD-19. CN-7. A31 KEY SOURCE 2º OVPO -OUT 5 KEY SOURCE 2 SD-19. CN-7. A24 KEY INVERT INDO -OUT 6 KEY SOURCE 2 SD-19. CN-7. C26 KEY MASK-ON NOMO -OUT 7 KEY BUS 2º	2 ⁰ (OVR) - OUT SD-19. CN-7. A32 2 ² (OVR) - OUT SD-19. CN-7. A30 SK (UND) - OUT SD-19. CN-7. C25 1 (OVR) - OUT EF-20. CN-11. A10
5		1 22	2. C6 2. C6 . C1, 3 . C1, 3		8 9 10 10 11 11 12 12 13 14 15 16 16 17 7			\$\text{SD-20.CM-9.A13}\$ KEY INVERTIDISO -OUT 9 KEY MASK \\ \text{WP-27.CM-3.C28}\$ WP 8X-2^2-OUT 10 \\ \text{WP-27.CM-3.C29}\$ WP 8X-2^2-OUT 11 \\ \text{WP-27.CM-3.C30}\$ KEY MASK-ON EVVO-OUT 13 \\ \text{KEY MASK-ON EVVO-OUT 14}\$ ASPECT \\ \text{SD-19.CM-7.A23}\$ KEY INVERTIONED-OUT 14 \\ \text{ASPECT CO.CM-9.11.C29}\$ OVER KEY-OUT 15 \\ \text{SD-20.CM-9.A14}\$ SOURCE KEY-BUS 0500 -OUT 17 \\ \text{IND-30.CM-9.A15}\$ ILL DISK-MATE 050 -OUT 17 \\ LC SOURCE SEXTS DISCO OUT 17 \\ \text{LC SUPPLIES DISCO OUT 17 \\ \text{LC SOURCE SEXTS DISCO OUT 17 \\ \text{LC SUPPLIES DISCO OUT 17 \\ \tex	-22-OUT WP-27, CN-3, A31 SK (0Y8) -0UT SD-19, CN-7, C23 TT-0UT WP-27, CN-3, A22 WIPE-OUT WP-27, CN-3, C21 S GSK) -0UT SD-20, CN-9, C14 DEG GSK) -0UT SD-20, CN-9, C15
		32 (8ND (49-50) SY-138, CN-33 (8ND (49-VA) EF-20. CN-134 (8ND (49-5V) SY-138, CN-34 (8ND (49-5V) SY-138, CN-35 (8ND (49-5V) SY-138, CN-36 (8ND (49-5V) SY-138, CN-36 (8ND (49-5V) SY-138, CN-36 (8ND (49-5V) SY-138, CN-38 (8ND (49-5V) SY-13	0. C1 4. C3 . C5, 7 . C5, 7	SY-138. CN-S. C14 A	18			\$5-20. Ch-9 A17 BORDER-LINE DISO -OUT 19 LINE AH-728 \$5-20. Ch-9 A18 DISK PYW B0SP -OUT 20 NON-SY \$5-19. Ch-7 C13 PRESET BORDER-OUT 21 EFF CONT 21 \$5-19. Ch-7 C13 PRESET BORDER-OUT 21 EFF CONT 25 \$5-19. Ch-7 C29 EFF CONT 25-0UT 23 EFF CONT 25 \$5-19. Ch-7 C29 EFF CONT 25-0UT 23 EFF CONT 26 EF-20. Ch-11. A11 KEY BUS 2 ² LWB -OUT 25 KEY BUS 2 ³ EFF CONT 25-0UT 25 EF-20. Ch-11. C22 KEY BUS 2 ³ LWB -OUT 25 KEY BUS 2 ³ EFF CONT 25-0UT 25 KEY BUS 25 KEY BUS 25-0UT 25 KEY BUS 25 KEY	YNC-1N
6		42 43 49.5V SY-138.CN-44 44 +9.5V SY-138.CN-45 45 46 SENSE (-) WP-27.CN-2 47 +15V SY-138.CN-4 49 EMERGENCY SY-138.CN-50 50	4. C10 2. AB -4. C9 2. CB	SY-138. CN-5, C11 WP#	28 WPB X-20-IN SY-13 PB X-21-IN 29 WPB X-22-IN SY-13 #B XX-25-IN 30 WPB XX-21-IN SY-13 #B XX-22-IN 31 32			EF-20. CN-11. A15 KEY FILL 2º 00V9 -0UT 29 KEY FILL 2º EF-20. CN-11. A1 POW-BUS 2º -0UT 29 FOW BUS EF-20. CN-11. A3 POW-BUS 2º -0UT 30 POW BUS EF-20. CN-11. A3 PST-BUS 2º -0UT 31 PST-BUS 2º -0UT 31 PST-BUS 2º -0UT 32 PST-BUS 3º -0UT 32 PST-B	21-01T FF-20 CN-11 A2
		7-157				7-158			
	B-SYX133-HN105#1	7-157 B C		D	E		F		G



G | H | I | K | L | M

HN-105 (2/2) MOTHER BOARD

	HN-105 (2/2) MUTHER BUARD				
1		CKZO INN-138. CN-11. 1	CN16 CF20 (Y) C VIDEO IN 1 (40) VIDEO IN 2 (40) VIDEO IN 2 (40) VIDEO IN 2 (40) VIDEO IN 3 (40) VIDEO IN 4 (40) VIDEO	CN17 VIDEO IN 1 R-Y (GO) 1	A VIDEO IN 1 B- VIDEO IN 1 B- VIDEO IN 1 B- VIDEO IN 1 B- VIDEO IN 2 B- VIDEO IN 2 B- VIDEO IN 3 B- VIDEO IN 3 B- VIDEO IN 4 B-
		CN21 1941-138. CN-24. 2	VIDEO IN 5 (0) 10 VIDEO IN 5 (0) VIDEO IN 5 (0) VIDEO IN 5 (0) VIDEO IN 5 (0) VIDEO IN 6 (0) VIDEO IN 6 (0) VIDEO IN 6 (0) VIDEO IN 7 (0) VIDEO IN 8 (0) VID	VIDEO IN S R-Y 602 10	VIDEO IN 4 B- VIDEO IN 5 B- VIDEO IN 5 B- VIDEO IN 6 B- VIDEO IN 6 B- VIDEO IN 7 B- VIDEO IN 7 B- VIDEO IN 8 B- VIDEO IN 8 B- VIDEO IN 8 B-
2		HN-138. CN-32. 1 1 PON OUT 1 HN-138. CN-32. 2 2 PON OUT 1 (9) HN-138. CN-17. 5 3 PON OUT 3 HN-138. CN-17. 6 4 PON OUT 3 (8) CN25 HN-138. CN-17. 6 4 PON OUT 3 (8) CN25 HN-138. CN-30. 3 1 KEY BUS OUT HN-138. CN-30. 4 2 KEY BUS OUT HN-138. CN-30. 4 2 KEY BUS OUT (9) 3 EXT VIDEO 1 (9) HN-138. CN-39. 1 4 EXT VIDEO 1	PGM 001 2 19 PGM 001 1 100 PGM 001 2 60 20 PGM 001 1 600 PST 001 160 21 PGM 001 3 PST 001 160 PST 001	POW OUT 2 R-Y 19 POW OUT 1 R-Y 19 POW OUT 1 R-Y 20 20 POW OUT 1 R-Y 30 20 POW OUT 1 R-Y 30 20 POW OUT 1 R-Y 30 POW OUT 1 R-Y 30 POW OUT 1 R-Y 40 POW OUT 3 R-Y 40 POW OUT 1 R-Y 40 POW POW OUT 1 R-Y 40 POW	POW OUT 2 B POW OUT 2 B-Y PST OUT B-Y PST OUT B-Y KEY BUS OUT B- EXT VIDEO 1 B-
. —		HN-138.CN-39, 2 5 EXT VIDEO 1 99 HN-138.CN-19, 1 6 EXT VIDEO 2 HH-138.CN-19, 2 7 EXT VIDEO 2 98 CR24	EXT VIDEO 2 (00 30 EXT VIDEO 2 (02 EXT VIDEO 2 (00 31 EXT VIDEO 2 (00 32 EXT VIDEO 2 (00 32 EXT VIDEO 3 (00	EXT VIDEO 2 R-Y 69 30 EXR VIDEO 2 R-Y 69 31 EXT VIDEO 2 R-Y 69 31 EXT VIDEO 2 R-Y 69 32	EXT VIDEO 2 B-
		HN-138. CN-34. 1 1 PGM OUT 2 HN-138. CN-34. 2 2 PGM OUT 2 (G) HN-138. CN-18. 6 4 PST OUT (G) HN-138. CN-18. 5 PST OUT	CNIO EF20 (Y) A C POWER. CN-1. 33 GND (45-A) 1 GND (45-A) EF-20. CN-12. C2 GND (A) 2 GND (A) SD-20. CN-6. A2	CN1 2 EF 20 (R-Y) A C EF-20. CN-14. C1 GND (45Y-A) 1 GND (45Y-A) EF-20. CN-10. A1 EF-20. CN-14. C2 GND (A) 2 GND (A) EF-20. CN-10. A2	A QND (+5V-A) GND (A)
3		NH-13B. CH-34.3 PGM OUT 2 R-Y	SP-20. CN-12. C4	S S S S S S S S S S	+9V +5Y A3 -9V EF-20. CN-12. A8 SHORT SENSE (
			SD-19, CN-7, C5	1 1 1 1 1 1 1 1 1 1	GND GLACIO GNO GLACIO GNO GKGO B-Y GNO GKGO B-Y B. B. DO -I N GNO G. B.)
4			## BUS-UND 18 KEY BUS-UND 19 KEY BUS-UND 0-0U SD-19. CM-6. C27 ## BUS-UND 19 GMD KEY BUS-UND 19 SD-19. CM-6. C28 ## SD-19. CM-7. C1 KEY BUS-UND 19 SD-19. CM-9. C7 ## SD-19. CM-7. C1 KEY BUS-UND 19 SD-19. CM-9. C7 ## SD-19. CM-7. C2 SD-19. CM-7. C2 SD-19. CM-7. C2 SD-19. CM-7. C2 ## SD-20. CM-6. A24 MATTE Y-0WD 0-1W SD-20. CM-9. C7 ## SD-20. CM-6. A27 SD-19. CM-9. C2 SD-19. CM-9. C2 SD-19. CM-9. C2 SD-19. CM-9. C2 ## SD-20. CM-6. A27 SD-19. CM-9. C2 SD-19. CM-9. C2 SD-19. CM-9. C3 ## SD-20. CM-9. A27 SD-19. CM-9. C2 SD-19. CM-9. C3 SD-20. CM-9. C5 EF-20. CM-12. C23 ## SD-20. CM-9. A27 SD-20. CM-9. A27 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A21 SD-20. CM-9. A21 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A21 SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A22 SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A22 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A22 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 SD-20. CM-9. A3 ## SD-20. CM-9. A3 SD-20. CM-9. A3	18	SD-19, CN-6, AZS MATTE B-Y (DVR) 0 EF-20, CN-12, A24 GND MATTE B-Y (
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5			EF-20. CN-13. A1 SY-136. CN-5. A2P PM BUS 2 ²⁻¹ N. 1 2 PM CONT-1 00 -1 N SD-19. CN-7. A3 EF-20. CN-13. C2 EF-20. CN-13. A2 SY-136. CN-5. A2P PM BUS 2 ²⁻¹ N. 2 PM CONT-1 00 -1 N SD-19. CN-7. A3 EF-20. CN-13. C3 EF-20. CN-13. A4 SY-136. CN-5. A3D PM BUS 2 ²⁻¹ N. 4 PM CONT-1 00 -1 N SD-19. CN-7. A5 EF-20. CN-13. C3 EF-20. CN-13. A4 SY-136. CN-5. A3D PM BUS 2 ²⁻¹ N. 4 PM CONT-2 00 -1 N SD-19. CN-7. A5 EF-20. CN-13. C3 EF-20. CN-13. A4 SY-136. CN-5. A3D PM BUS 2 ²⁻¹ N. 5 GND PM CONT-2 00 -1 N SD-19. CN-7. A6 EF-20. CN-13. C5 EF-20. CN-13. A6 SY-136. CN-5. A3D PST BUS 2 ²⁻¹ N 6 PM CONT-3 00 -1 N SD-19. CN-7. A7 EF-20. CN-13. C5 EF-20. CN-13. A6 SY-136. CN-5. A3D PST BUS 2 ²⁻¹ N 6 PM CONT-3 00 -1 N SD-19. CN-7. A7 EF-20. CN-13. C7 EF-20. CN-13. A6 SY-136. CN-5. C3Z PST BUS 2 ²⁻¹ N 6 PM CONT-3 00 -1 N SD-19. CN-7. A7 EF-20. CN-13. C7 EF-20. CN-13. A6 SY-136. CN-5. C3Z PST BUS 2 ²⁻¹ N 6 PM CONT-4 00 -1 N SD-19. CN-7. A9 EF-20. CN-13. C7 EF-20. CN-13. A6 SY-136. CN-5. C3Z PST BUS 2 ²⁻¹ N 7 SND PM CONT-4 00 -1 N SD-19. CN-7. A9 EF-20. CN-13. C7 EF-20. CN-13. A10 SY-136. CN-5. C3Z PST BUS 2 ²⁻¹ N 7 SND PM CONT-4 00 -1 N SD-19. CN-7. A10 EF-20. CN-13. C1 EF-20. CN-13. A10 SY-136. CN-5. C2Z PST BUS 2 ²⁻¹ N 7 SND PM CONT-5 SD-19. CN-7. A11 EF-20. CN-13. C1 EF-20. CN-13. A11 SY-136. CN-5. C2Z KEY BUS 2 ² DWP -1 N 10 PM CONT-5 SD-19. CN-7. A11 EF-20. CN-13. C1 EF-20. CN-13. A11 SY-136. CN-5. C27 KEY BUS 2 ² DWP -1 N 12 PM CONT-5 SD-19. CN-7. A11 EF-20. CN-13. C1 EF-20. CN-13. A13 SY-136. CN-5. C27 KEY BUS 2 ² DWP -1 N 12 PM CONT-5 SD-19. CN-7. A14 EF-20. CN-13. C1 EF-20. CN-13. C	EF-20. CH-15. A1 EF-20. CN-11. A1 POW BUS 2º-IN 1 EF-20. CH-15. A2 EF-20. CN-11. A2 POW BUS 2º-IN 2 POW CONT-1 DO -IN EF-20. CN-11. C2 EF-20. CN-15. C2 EF-20. CN-15. A2 EF-20. CN-11. A3 POW BUS 2º-IN 3 QW POW CONT-1 DO -IN EF-20. CN-11. C3 EF-20. CN-15. C3 EF-20. CN-15. A4 EF-20. CN-11. A4 POW BUS 2º-IN 3 QW POW CONT-2 DO -IN EF-20. CN-11. C4 EF-20. CN-15. C4 EF-20. CN-15. A5 EF-20. CN-11. A5 POW BUS 2º-IN 5 QW POW CONT-2 DO -IN EF-20. CN-11. C5 EF-20. CN-15. C6 EF-20. CN-15. A6 EF-20. CN-11. A6 PST BUS 2º-IN 5 QW POW CONT-2 DO -IN EF-20. CN-11. C5 EF-20. CN-15. C6 EF-20. CN-15. A0 EF-20. CN-11. A6 PST BUS 2º-IN 6 POW CONT-3 DO -IN EF-20. CN-11. C6 EF-20. CN-15. C6 EF-20. CN-15. A0 EF-20. CN-11. A6 PST BUS 2º-IN 7 QW POW CONT-2 DO -IN EF-20. CN-11. C7 EF-20. CN-15. C6 EF-20. CN-15. A0 EF-20. CN-11. A9 PST BUS 2º-IN 8 POW CONT-4 DO -IN EF-20. CN-11. C7 EF-20. CN-15. C8 EF-20. CN-15. A1 DEF-20. CN-11. A9 PST BUS 2º-IN 8 POW CONT-4 DO -IN EF-20. CN-11. C8 EF-20. CN-15. C9 EF-20. CN-15. A1 DEF-20. CN-11. A1 PST BUS 2º-IN 9 QW POW CONT-5 PST CN-11. C9 EF-20. CN-15. C9 EF-20. CN-15. A1 DEF-20. CN-11. A1 PST BUS 2º-IN 9 QW POW CONT-5 PST CN-11. C1 PST CN-15. C1 PST C	A POW BUS 2"-11 EF-20. CN-13. A1 POW BUS 2"-11 EF-20. CN-13. A3 POW BUS 2"-11 EF-20. CN-13. A3 POW BUS 2"-11 EF-20. CN-13. A3 POW BUS 2"-11 EF-20. CN-13. A5 POW BUS 2"-11 EF-20. CN-13. A5 POT BUS 2"-11 EF-20. CN-13. A6 PST BUS 2"-11 EF-20. CN-13. A10 KEY BUS 2"-11 EF-20. CN-13. A10 KEY BUS 2" OWN EF-20. CN-13. A11 KEY BUS 2" OWN EF-20. CN-13. A12 KEY BUS 2" OWN EF-20. CN-13. A14 KEY FILL 2" OWN EF-20. CN-13. A16 KEY FILL 2" OWN EF-20. CN-13. A16 KEY FILL 2" OWN EF-20. CN-13. A16 KEY FILL 2" OWN EF-20. CN-13. A17 EF-20. CN-13. A18 DSK-PW OSO J EF-20. CN-13. A19 KEY OVER-IN
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(G) 4 VIDEO IN 2	VIDEO IN 2 R-Y (G) 4 VIDEO IN 2 R-Y		VIDEO IN 2 B-Y (9) 4 VIDEO IN 2 B-Y	VIDEO IN 4 R-Y 7 HN-138. CN-14. 1 VIDEO IN 4 R-Y (Q) 8 HN-138. CN-14. 2
(G) 5 VIDEO IN 2 (G) (G) 6 VIDEO IN 3	VIDEO IN 2 R-Y (6) 5 VIDEO IN 2 R-Y (6) VIDEO IN 3 R-Y (6) 6 VIDEO IN 3 R-Y		VIDEO IN 2 B-Y (Q) 5 VIDEO IN 2 B-Y (Q) VIDEO IN 3 B-Y (Q) 6 VIDEO IN 3 B-Y	VIDEO IN 5 R-Y 9 HN-138. CN-15. I
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tg) 13 VIDEO IN 6 (g)	VIDEO IN 6 R-Y (G) 13 VIDEO IN 6 R-Y (G)		VIDEO IN 6 B-Y (G) 13 VIDEO IN 6 B-Y (G) VIDEO IN 7 B-Y (G) 14 VIDEO IN 7 B-Y	VIDEO IN 8 R-Y 5 HN-138, CN-28, 3
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C 1 GND (+5-A)	A C EF-20. CN-14. C1	I. CN-10. A1	A C GND (+5V-A) 1 GND (+5V-A) EF-20. CN-12. A1	VIDEO IN 4 B-Y 7 HN-138 CN-14.5 VIDEO IN 4 B-Y (G) 8 HN-138 CN-14.6
2 GND (A) SD-20. CN-8. A2	EF-20. CN-14. C2	. CN-10. A2	GND (A) 2 GND (A) EF-20, CN-12, A1	VIDEO IN 5 B-Y 9 HN-138. CN-15. 5
3 4 +9V SD-20. CN-8. A4	EF-20. CN-14, C4 +9V 4 +9V EF-20	I. CN-10. A4	3 +9V 4 +9V EF-20. CN-12. A4	VIDEO IN 5 B-Y (Q) 10 HN-138, CN-15. 6
5 +5V (A)	EF-20. CN-14. C5 +5V (A) 5 +5V (A) EF-20	. CN-10. A5	+5V (A) 5 +5V (A) EF-20. CN-12. A5	CN31
6 -9V SD-20. CN-8. A6	EF-20. CN-14. C6 -9V 6 -9V EF-20	. CN-10. A6	-9V 6 -9V EF-20. CN-12. A6	VIDEO IN 6 B-Y 1 HN-138. CN-24.5 VIDEO IN 6 B-Y (9) 2 HN-138. CN-24.6
(+) 8 SHORT SENSE (+) SD-20. CN-8. C8 EF-20. CN-12. C8	EF-20. CN-14. A8	. CN-10. C8 EF-20. CN-14. C8 EF-20. CN-		VIDEO IN 7 B-Y 3 HN-138. CN-26. 5
9 10	10		10	VIDEO IN 7 B-Y (8) 4 HN-138. CN-26. 6 VIDEO IN 8 B-Y 5 HN-138. CN-28. 5
11 3 12 BLACK 00 - IN SD-19- CN-7- CB	9ND (BLACK) 12 BLACK (XX - IN		11	VIDEO IN 8 B-Y (0) 6 HN-138. CN-28. 6
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N 16 MATTE Y (UND) (X) - IN SD-19. CN-6. A28	B. B (X) - IN 16 MATTE R-Y (UND) (X) - IN SD-19	. CN-6. A30	B. B CO - IN 16 MATTE B-Y (UND) CO - IN SD-19. CN-6. A29	PGM OUT 3 B-Y 3 HN-138. CN-17. 1
) 17	GND G. B.) 17 GND MATTE R-Y UND) EF-20.	CN-10. C17 EF-20. CN-14. C17	GND (9. B.) 17 GND (MATTE B-Y UND) EF-20. CN-12. C17	PGM OUT 3 B-Y (g) 4 HN-138. CN-17. 2
-UND) 19 GND (KEY BUS-UND) SD-19. CN-6. C28	19 20 DSK FILL R-Y 00 - IN SD-2(D.CH. Q.CO	19 20 DSK FILL B-Y 00 - IN SD-20, CN-9, A11	СИЗЗ
XI -OUT 21 GND DSK FILL Y) SD-20. CN-9. C7	21 GND ODSK FILL R-Y) SD-20	D. CN-9. A9	21 GND (DSK FILL B-Y) SD-20, CN-9, C11	KEY BUS OUT B-Y 1 HN-138. CN-30. 7 KEY BUS OUT B-Y (0) 2 HN-138. CN-30. 8
-OVRO 22 PST PTN BORDER CO - IN SD-19. CN-6. C21 EF-20. CN-12. C22 OO - IN 23 GND (PST PTN BORDER) SD-19. CN-6. C22 EF-20. CN-12. C23	22 PST PTN BORDER 03 - IN EF-20. SD-19. CN-6. A26 MATTE R-Y (DVP) 03 - IN 23 GND (PST PTN BORDER) EF-20.	CN-10. C22 EF-20. CN-14. C22 CN-10. C23 EF-20. CN-14. C23 SD-19. CN-	22 PST PTN BORDER 00 - IN EF-20. CN-12. C22 -6. A25 MATTE B-Y (OVR) (OV - IN 23 GND (PST PTN BORDER) EF-20. CN-12. C23	EXT VIDEO 1 B-Y (0) 3 EXT VIDEO 1 B-Y 4 HN-138.CN-39.5
-OVR) 24 DSK KEY-P8M (X) - IN SD-20. CN-9. C5 EF-20. CN-12. C24	EF-20. CN-14. A24	CN-10. C24 EF-20. CN-14. C24 EF-20. CN-1	12. A24 GND GNATTE B-Y DVR) 24 DSK KEY-PGM CO - IN EF-20. CN-12. C24	EXT VIDEO 1 B-Y (0) 5 HN-138. CN-39. 6
0 -OUT 25	25 QND QDSK KEY-PQNQ EF-20. 26 DSK KEY-PVN QQ - IN EF-20.	CN-10. C25	25	EXT VIDEO 2 B-Y 6 HN-138. CN-19. 5 EXT VIDEO 2 B-Y (g) 7 HN-138. CN-19. 6
27	27 GND DSK KEY-PVW) EF-20.	CN-10. C27 EF-20. CN-14. C27	27 GND (DSK KEY-PVW) EF-20. CN-12. C27	CNO
28 29 INT CLAMP-IN SD-20. CN-9. A22 EF-20. CN-12. C29		CN-10. C29 EF-20. CN-14. C29	29 INT CLAMP-IN EF-20. CN-12. C29	PGM OUT 2 B-Y 1 HN-138. CN-34. 5
30 SD-19. CN-6. C29	30 31 FTB (R-Y/B-Y) SD-19	. CN-7. C19	30 31 FTB 07-Y/B-Y) EF-20. CN-12. C31	PBM OUT 2 B-Y (6) 2 HN-138. CN-34. 6
32 GND (FTB BLK) SD-19. CN-6. C30		CN-14. C32	32 GND (FTB BLK) EF-20. CN-12. C32	PST QUT B-Y (Q) 4 HN-138. CN-18. 2
'				PST OUT B-Y 5 HN-138. CN-18. 1
EF20 M	CN13 EF20 (R-Y)		CNIS EF20 (B-Y)	
C 1-IN 1	A C EF-20. CN-15. A1 EF-20. CN-11. A1 PQM BUS 20-1N 1	EF-20. CN-	-13. A1 PGM BUS 2°-IN 1	
-IN 2 PGM CONT-1 (X) -IN SD-19. CN-7. A3 EF-20. CN-13. C2	EF-20. CN-15. A2	. CN-11. C2 EF-20. CN-15. C2 EF-20. CN-	-13. A2 PGM BUS 21-IN 2 PGM CONT-1 CO - IN EF-20. CN-13. C2	
-IN 3 GND (PGM CONT-1) SD-19. CN-7. A4 EF-20. CN-13. C3 -IN 4 PGM CONT-2 CO -IN SD-19. CN-7. A5 EF-20. CN-13. C4	EF-20. CN-15. A4	L CN-11. C3	-13. A4 PGM BUS 23-IN 4 PGM CONT-2 CO - IN EF-20. CN-13. C4	
-IN 5 GND (PGM CONT-2) SD-19. CN-7. A6 EF-20. CN-13. C5 -IN 6 PGM CONT-3 C0 -IN SD-19. CN-7. A7 EF-20. CN-13. C6		. CN-11. C5		
7 GND (PGM CONT-3) SD-19. CN-7. AB EF-20. CN-13. C7	EF-20. CN-15. A7	. CN-11. C7 EF-20. CN-15. C7 EF-20. CN-	-13. A7 PST BUS 22-IN 7 GND (PGM CONT-3) EF-20. CN-13. C7	
- N		. CN-11. CB		
VR) - IN 10 PGM CONT-5 (X) - IN SD-19. CN-7. A11 EF-20. CN-13. C10	EF-20. CN-15. A10	CN-11.C10 EF-20.CN-15.C10 EF-20.CN-1	13. A10 KEY BUS 2' (OVR) - IN 10 PGM CONT-5 00 - IN EF-20. CN-13. C10	
VR) - IN		. CN-11. C11		
JND) - IN 13 GND (PST CONT-1) SD-19. CN-7. A14 EF-20. CN-13. C13 JND) - IN 14 PST CONT-2 CO - IN SD-19. CN-7. A15 EF-20. CN-13. C14		CN-11. C13	13. A13 KEY FILL 2° (UND) - IN 13 GND (PST CONT-1) EF-20. CN-13. C13 13. A14 KEY FILL 2' (UND) - IN 14 PST CONT-2 00 - IN EF-20. CN-13. C14	
3VR0 - IN 15 GND (PST CONT-2) SD-19. CN-7. A16 EF-20. CN-13. C15	EF-20. CN-16. A15	CN-11. C15 EF-20. CN-15. C15 EF-20. CN-1	13. A15 KEY FILL 2° (OVR) - IN 15 GND (PST CONT-2) EF-20. CN-13. C15	
10/F0 - IN 16 PST CONT-3 00 - IN SD-19. CN-7. A17 EF-20. CN-13. C16	EF-20. CN-17. A16	. CN-11. C16	13.A16 KEY FILL 2' (OVR) - IN 16 PST CONT-3 00 - IN EF-20. CN-13. C16	!
0 - IN 18 PST CONT-4 00 - IN SD-19. CN-7. A19 EF-20. CN-13. C18	EF-20. CN-15. A18	CN-11. C18 EF-20. CN-15. C18 EF-20. CN-1	13. A18 DSK-PVW OSK) IN 18 PST CONT-4 (X) - IN EF-20. CN-13. C18	
20 PST CONT-5 00 - IN SD-19. CN-7. A21 EF-20. CN-13. C20	20 PST CONT-5 00 - IN EF-20.	CN-11. C19	20 PST CONT-5 00 - IN EF-20. CN-13. C20	
21 GND (PST CONT-5) SD-19. CN-7. A22 EF-20. CN-13. C21 D-IN 22 KEY BUS 2 ⁰ (UND) -IN SY-138. CN-5. A25 EF-20. CN-13. C22	21 9ND (PST CONT-5) EF-20. EF-20. CN-15. A22 EF-20. CN-11. A22 PST PTN (UND) - IN 22 KEY BUS 2° (UND) - IN EF-20.	CN-11. C21	21 GND (PST CONT-5) EF-20. CN-13. C21	
1)IN 23 KEY BUS 21 (UND) -IN SY-138. CN-5. C25 EF-20. CN-13. C23	EF-20. CN-15. A23	CN-11. C23 EF-20. CN-15. C23 EF-20. CN-1	13. A23 PST PTN (DVR) - IN 23 KEY BUS 21 (UND) - IN EF-20. CN-13. C23	·
24 KEY BUS 2 ² (UND) - IN SY-138. CN-5. A26 EF-20. CN-13. C24 25 KEY BUS 2 ³ (UND) - IN SY-138. CN-5. C26 EF-20. CN-13. C25	24 KEY BUS 2 ² (UND) - IN EF-20. 25 KEY BUS 2 ³ (UND) - IN EF-20.	CN-11. C24 EF-20. CN-15. C24 CN-11. C25 EF-20. CN-15. C25	24 KEY BUS 2 ² (UND) - IN EF-20. CN-13. C24 25 KEY BUS 2 ³ (UND) - IN EF-20. CN-13. C25	
26	26		26	
27		CN-11. C27	27 PRESET BORDER-IN EF-20. CN-13. C27 28 UNDER KEY EF-20. CN-13. C28	HN-105(2/2)
29 OVER KEY CONT SY-138. CN-5. A15 EF-20. CN-13. C29		CN-11. C29 EF-20. CN-15. C29	29 OVER KEY EF-20. CN-13. C29	1-631-554-11
31	31		31	BVS-3200C/3200CP
32 EFF CODE CONT SY-138. CN-4. C15 EF-20. CN-13. C32	32 EFF CODE CONT EF-20.	CN-11. C32 EF-20. CN-15. C32	32 EFF CODE CONT EF-20.CN-13.C32	

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7-166

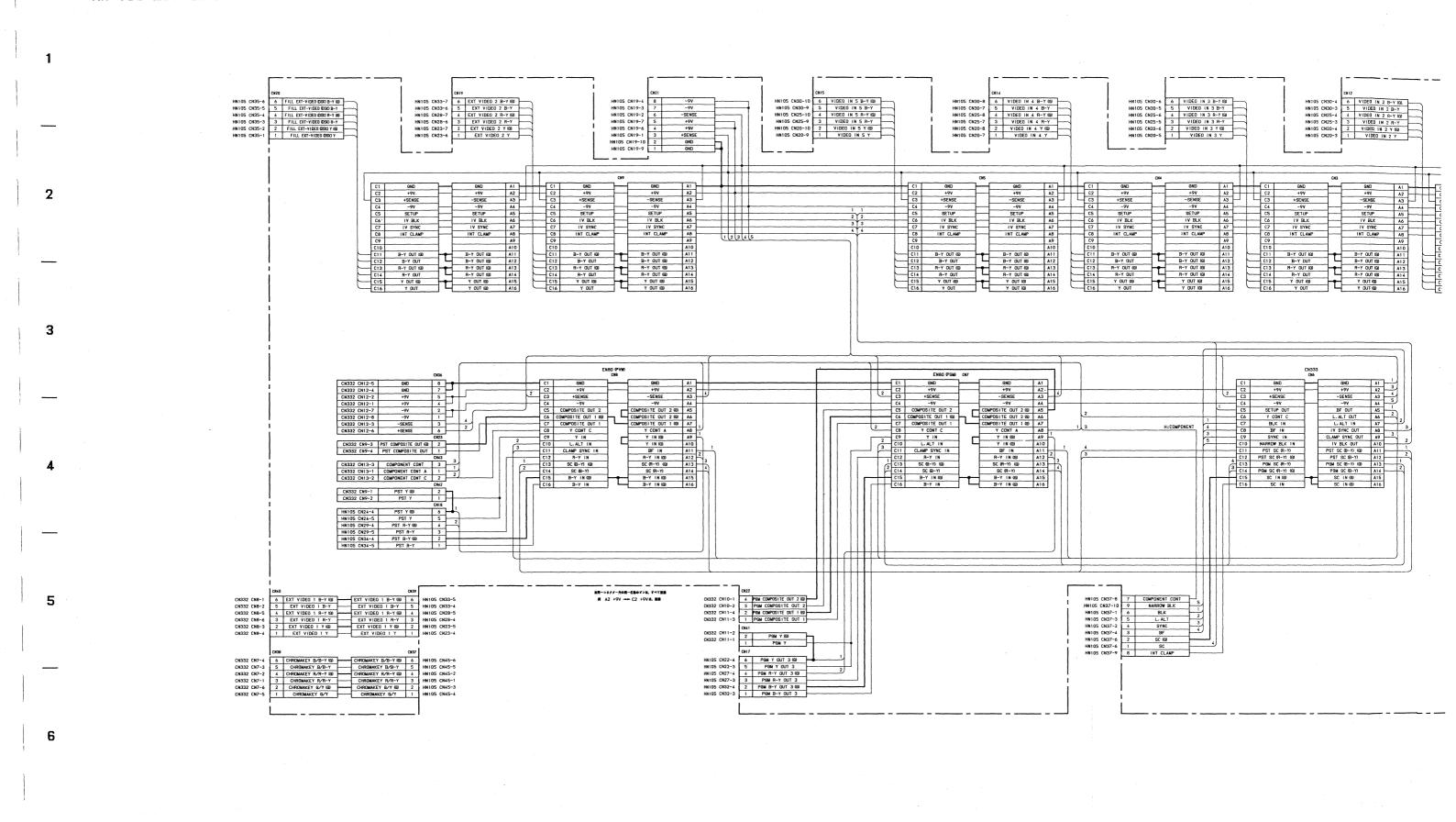
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HN-138 MOTHER BOARD



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B-SYX133-HN1381

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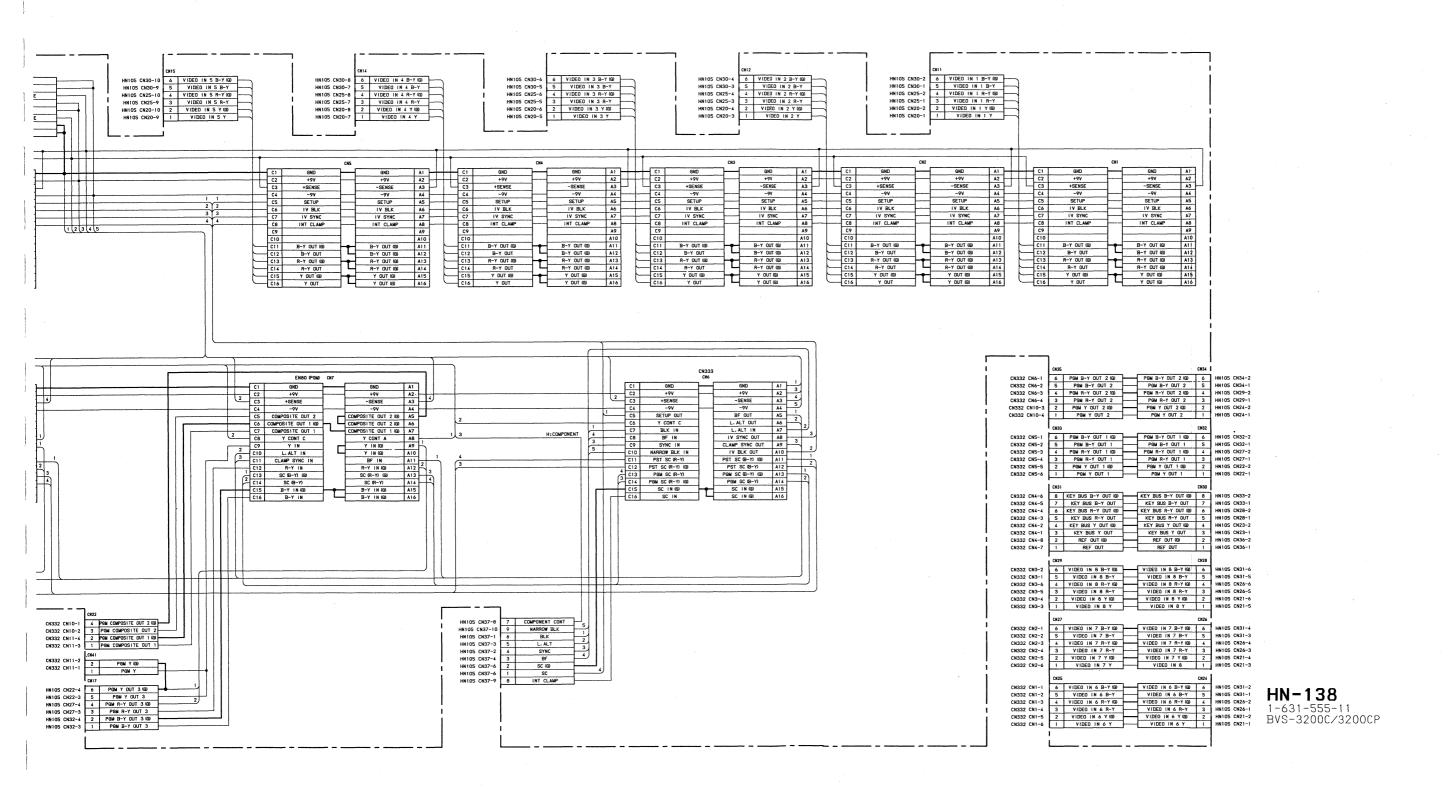
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7-171 F G H I I ,

KY-155/155P (1/2) SWITCH BOARD

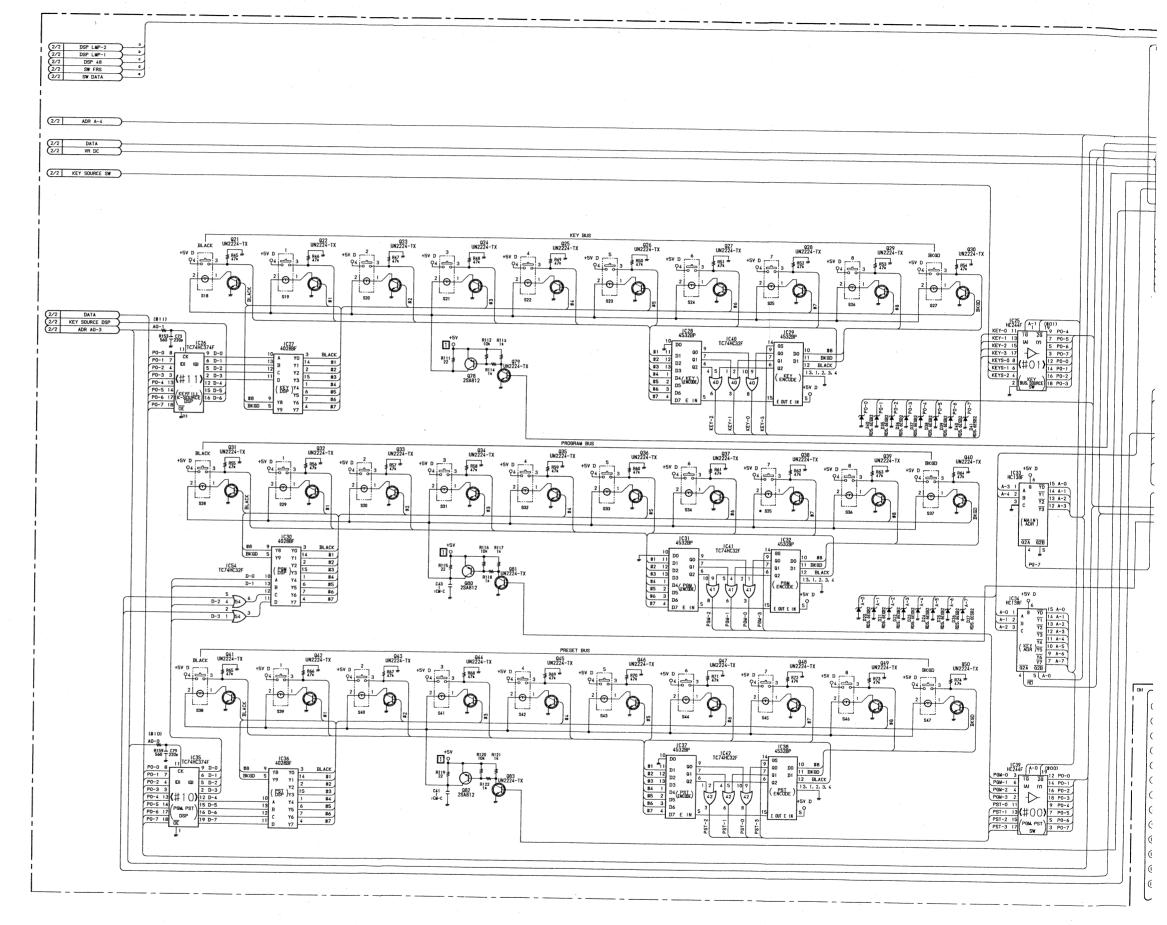
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B-SYX133-KY155#1



7-103 R

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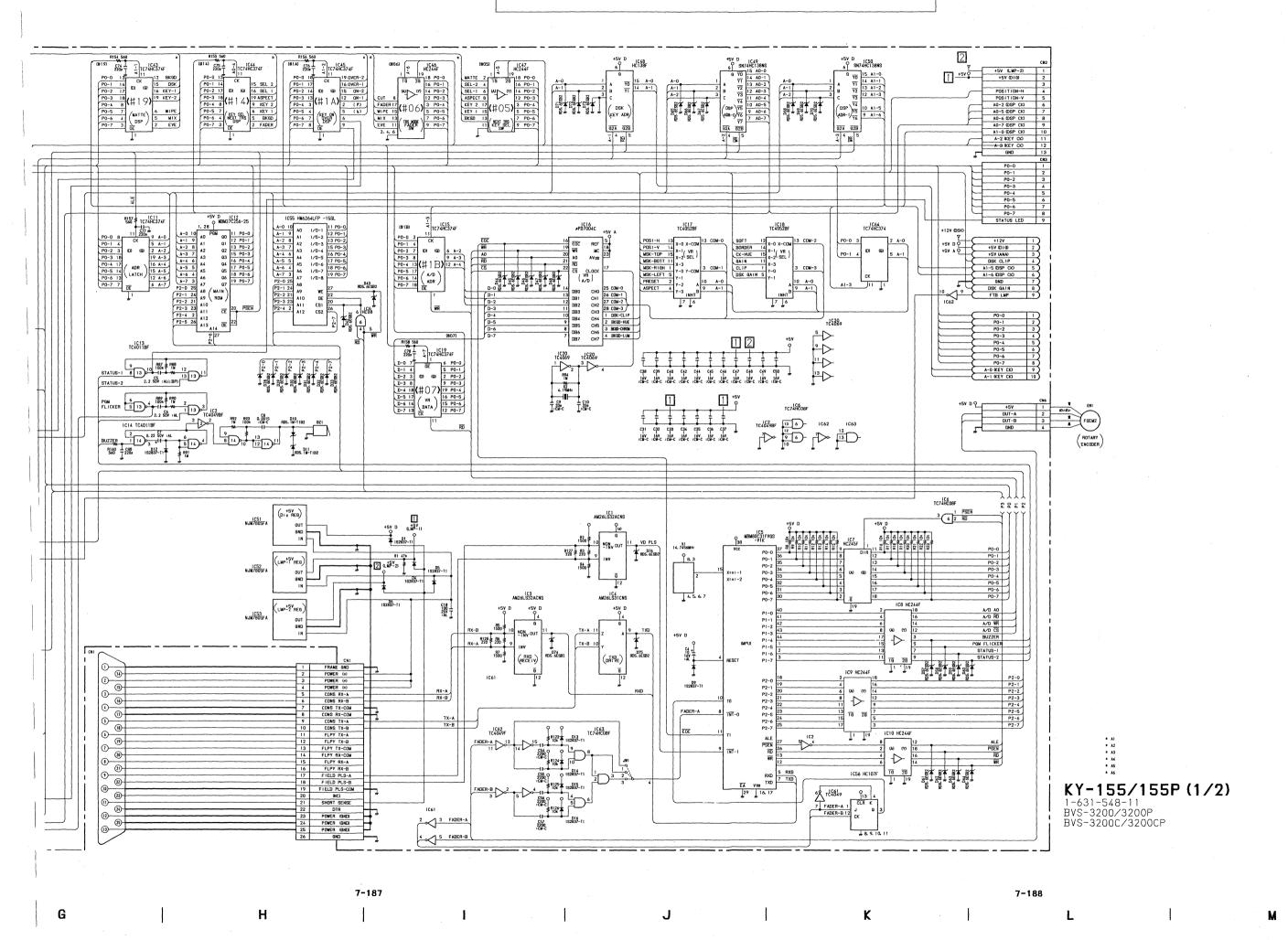
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KY-155/155P (2/2) SWITCH BOARD

2201 292 T:CH-C T:CH-C T:CH-C T:CH-C (1/2 ADR A0-3 KEY OVER UN2224-TX EXT MASK UN2224-TX KEY INVERT UN2224-TX KEY SELECT 1 UN2224-TX KEY SELECT 2 UN2224-TX +5V D +5 220 220 2 62 0 1 1/2 KEY SOURCE DSP

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C15 C16 C17 C001 C001 C001 C001 TCM-C TCM-C TCM-C

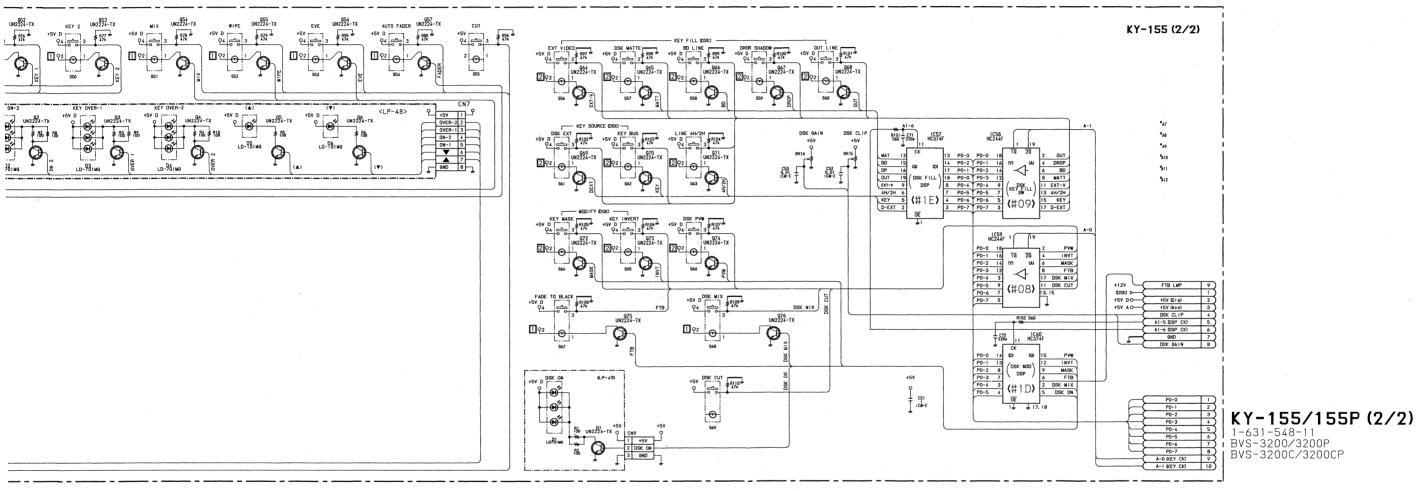
MATTE 8 18 28 14 PO-5 (P-BUS 2) (N) 11 PO-5 (N) 14 PO-7 (N) 14 PO-7 (N) 15 PO-6 (N) 15 PO-

1 92

B-SYX133-KY155#2

KY-155/155P CONSOLE

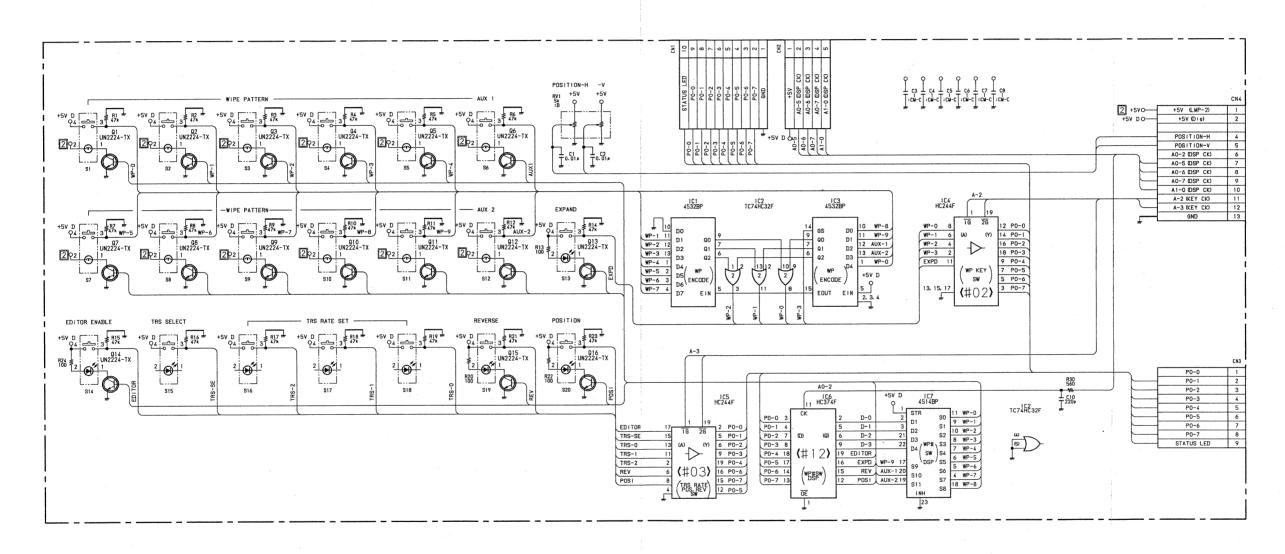
CONSOLE KY-155/155P



7-195

7-196

KY-157 SUB SWITCH BOARD



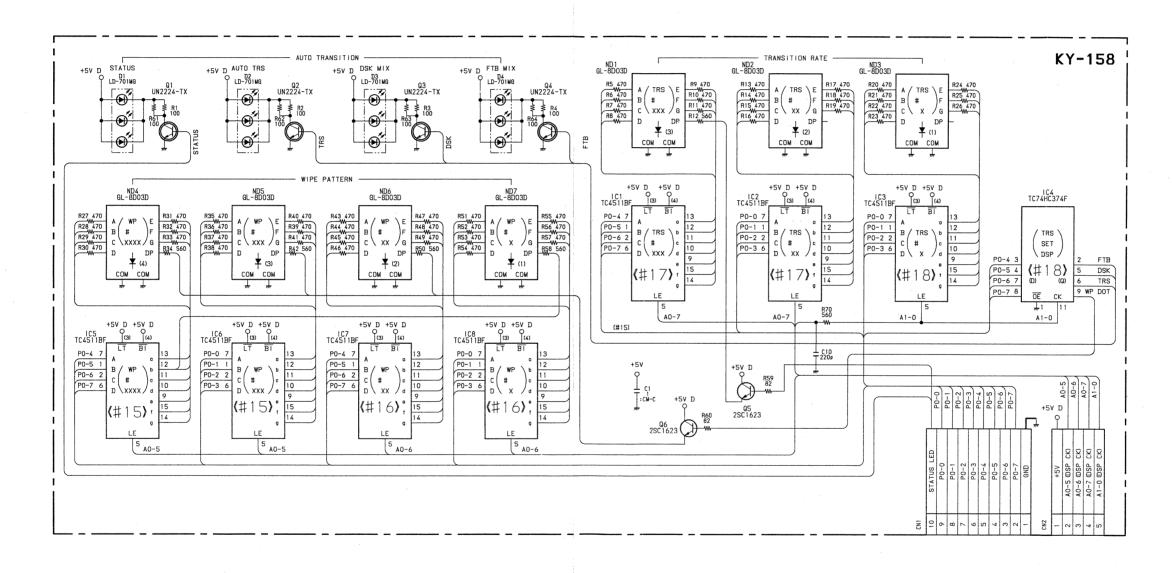
KY-1571-631-549-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

7-199

B-SYX133-KY157-M

7-200

KY-158 SUB SWITCH BOARD



KY-158

1-631-550-11 BVS-3100/3100P BVS-3200/3200P BVS-3200C/3200CP

7-203

7-204

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B-SYX133-KY158-M

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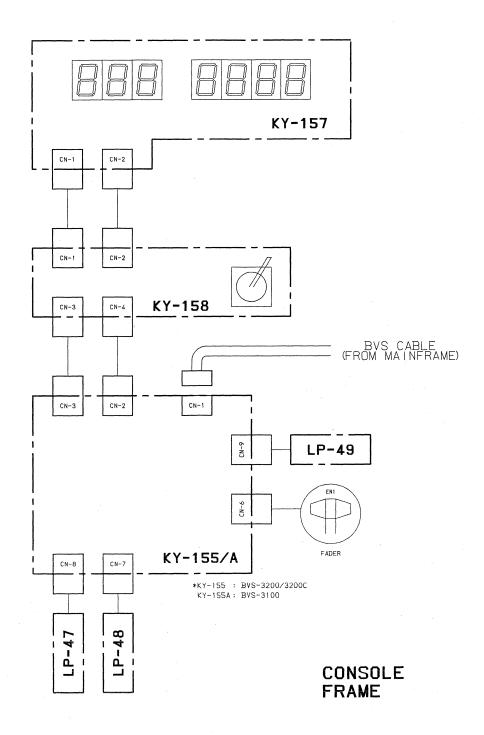
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FRAME (CONSOLE)



7-206

B-SYX133-CONSOLE-FRAME-M

В

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SECTION 8 PRINTED CIRCUIT BOARDS

WD - 1	7/27P (1-631	E26 11)									
		-336-11)									
CN3	G - 1	IC42	F - 3	JR607	A - 3 (B)	Q95	G - 4 (B)	RV18	H - 4	TP7	
CN20	F - 8	IC43 IC44	F - 3 E - 6	JR609 JR612	A - 3 (B) A - 3 (B)	Q96	G - 5 (B) H - 5 (B)	RV19	G - 4	TP7	16 D - 5
CT1	H - 7	IC45	F - 6	JR612 JR613	A - 3 (B)	Q97 Q98	H - 6 (B)	RV20 RV22	G - 5 G - 8	X60	
		IC46	F - 6	JR616	A - 3 (B)	Q601	B - 8 (B)	RV23	G - 8	X602	
D1	H - 2 (B)	IC47	F - 3	JR617	A - 3 (B)	Q602	B - 8 (B)	RV24	G - 8	A002	. 5-4
D2	H - 2 (B)	IC48	F - 6	JR619	A - 3 (B)	Q603	A - 1 (B)	RV25	G - 8		
D3 D4	H - 8	IC49	G - 6	JR621	A - 2 (B)	Q604	B - 1 (B)	RV26	H - 5		
D5	H - 8 C - 1 (B)	IC50 IC51	F - 3	JR623	A - 2 (B)	Q605	B - 1 (B)	RV27	G - 2		
D6	F - 2 (B)	IC51	E - 2 E - 2	JR626 JR627	A - 2 (B) A - 2 (B)	Q606 Q701	E - 6 (B) D - 8 (B)	RV28	G - 3		
D7	G - 1 (B)	IC53	F - 2	JR630	A - 2 (B)	Q701	D - 8 (B)	RV29 RV30	H - 3 H - 4		
D8	G - 2 (B)	IC55	F - 2	JR631	A - 2 (B)	Q703	D - 8 (B)	RV35	G - 6		
D13	F - 2 (B)	IC56	F - 3	JR634	A - 2 (B)	Q704	D - 8 (B)	RV36	Ğ - 7		
D14	F - 2 (B)	IC57	F - 2			Q705	D - 8 (B)	RV37	G - 7		
D15 D16	E - 4 (B) F - 6 (B)	IC60 IC61	E - 4 E - 4	Q1	H - 2 (B)	Q706	D - 7 (B)	RV38	G - 7		
D17	E - 7 (B)	IC62	F - 4	Q2 Q3	H - 2 (B) H - 3 (B)	Q707 Q708	D - 7 (B) D - 7 (B)	RV39	G - 4		
D28	F - 2 (B)	IC63	F - 4	Q4	H - 3 (B)	Q708 Q709	D - 7 (B)	RV40 RV41	H - 5 E - 4		
D601	C - 6 (B)	IC64	F - 4	Q5	H - 2 (B)	Q710	D - 7 (B)	RV42	E - 3		
D602	C - 6 (B)	IC67	F - 6	Q6	H - 3 (B)	Q711	D - 7 (B)	RV43	F - 4		
D603	D - 6 (B)	IC69	E - 5	Q7	H - 3 (B)	Q712	D - 7 (B)	RV44	F - 3		
D604 D605	C - 6 (B)	IC70	E - 5	. Q8	H - 3 (B)	Q713	D - 6 (B)	RV45	E - 7		
D606	C - 7 (B) C - 7 (B)	IC72 IC73	F - 5 F - 6	Q9	H - 3 (B)	Q714	D - 6 (B)	RV46	E - 6		
D607	C - 7 (B)	IC74	F - 5	Q10 Q11	H - 3 (B) H - 3 (B)	Q715 Q716	D - 6 (B) D - 6 (B)	RV47 RV48	F - 7 F - 6		
D608	C - 7 (B)	IC77	E - 7	Q12	H - 3 (B)	Q717	D - 6 (B)	RV40 RV49	F - 4		
D609	B - 8 (B)	IC78.	E - 7	Q14	G - 1 (B)	Q718	D - 6 (B)	RV50	F - 6		
D610	B - 8 (B)	IC79	F - 7	Q15	G - 2 (B)	Q719	D - 6 (B)	RV51	F - 7		
D611	C - 7 (B)	IC80	F - 7	Q16	G - 2 (B)	Q720	D - 5 (B)	RV52	E - 2		
D612 D613	C - 7 (B) C - 7 (B)	IC82 IC83	F - 7 F - 7	Q17	G - 2 (B)	Q721	D - 5 (B)	RV53	F - 2		
D614	B - 7 (B)	IC84	H - 7	Q18 Q19	G - 2 (B) G - 2 (B)	Q722 Q723	D - 5 (B) D - 5 (B)	RV54 RV55	F - 2 F - 5		
D615	A - 1 (B)	IC85	H - 6	Q20	G - 2 (B)	Q724	D - 5 (B)	RV56	F - 5		
D616	B - 1 (B)	IC601	C - 8	Q21	G - 2 (B)	Q725	D - 4 (B)	RV57	F - 5		
D701	D - 8 (B)	IC602	C - 8	Q22	G - 2 (B)	Q726	D - 4 (B)	RV58	F - 5		
D702	D - 7 (B)	IC603	C - 7	Q23	G - 2 (B)	Q727	D - 4 (B)	RV59	F - 5		
D703 D704	D - 6 (B) D - 5 (B)	IC604 IC605	B - 8	Q24	G - 2 (B)	Q728	D - 4 (B)	RV60	F - 5		
0705	D - 4 (B)	IC605	B - 8 B - 7	Q25 Q35	G - 2 (B) H - 6 (B)	Q729 Q730	D - 4 (B) D - 4 (B)	RV61 RV62	E - 8 F - 8		
0706	D - 3 (B)	IC607	B - 7	Q36	H - 6 (B)	Q731	D - 4 (B)	RV62	F - 8		
0707	D - 2 (B)	IC608	A - 6	Q37	H - 6 (B)	Q732	D - 3 (B)	RV64	F - 3		
2708	D - 2 (B)	IC609	B - 5	Q38	H - 6 (B)	Q733	D - 3 (B)	RV65	H - 2		
709	D - 3 (B)	IC610	A - 5	Q39	H - 6 (B)	Q734	D - 3 (B)	RV66	H - 2		
L601	A - 1	IC611 IC612	A - 6 C - 6	Q40 Q41	G - 3 (B)	Q735	D - 3 (B)	RV601	A - 5		
-00.		IC613	B - 6	Q42	G - 3 (B) H - 4 (B)	Q736 Q737	D - 3 (B) D - 3 (B)	RV602 RV603	A - 1 B - 1		
C1	H - 2	IC614	A - 7	Q43	H - 4 (B)	Q738	D - 3 (B)	RV701	D - 7		
C2	H - 3	IC616	B - 6	Q56	G - 6 (B)	Q739	D - 3 (B)	RV702	D - 7		
C3	H - 3	IC617	B - 4	Q57	G - 6 (B)	Q740	D - 3 (B)	RV703	D - 7		
C4 C5	H - 8 H - 8	IC620	C - 2 C - 2	Q60	E - 3 (B)	Q741	D - 2 (B)	RV704	D - 6		
C6	H - 8	IC621 IC622	B - 2	Q61 Q62	F - 3 (B) F - 6 (B)	Q742 Q743	D - 2 (B)	RV705	D - 6		
C7	H - 7	IC623	C - 3	Q63	F - 6 (B)	Q744	D - 2 (B) D - 2 (B)	RV706 RV707	D - 6 D - 4		
C8	H - 7	IC624	B - 3	Q64	F - 6 (B)	Q745	D - 2 (B)	RV707	D - 4		
C9	G - 4	IC625	B - 2	Q65	F - 6 (B)	Q746	D - 2 (B)	RV709	D - 4		
C10	G - 3	IC628	B - 1	Q66	E - 2 (B)	Q747	D - 2 (B)	RV710	D - 3		
C11 C12	H - 4 H - 4	IC629	C - 1	Q67	E - 2 (B)	Q748	D - 8 (B)	RV711	D - 3		
C13	H - 5	IC630 IC631	B - 1 A - 4	Q68 Q69	E - 3 (B) F - 2 (B)	Q749	D - 8 (B)	RV712	D - 3		
C14	G - 4	IC632	A - 4	Q70	F - 3 (B)	Q750 Q751	D - 6 (B) D - 6 (B)	RV713 RV714	D - 2 D - 2		
C15	G - 4	IC633	A - 3	Q71	F - 2 (B)	Q752	D - 5 (B)	RV714	D - 2		
C16	G - 5	IC634	A - 3	Q72	E - 4 (B)	Q753	D - 4 (B)	RV716	D - 8		
C17	G - 5	IC635	A - 2	Q73	E - 5 (B)	Q754	D - 3 (B)	RV717	D - 8		
C18	G - 5	IC636	A - 2	Q74	E - 5 (B)	Q755	D - 3 (B)	RV718	D - 6		
C19 C20	G - 5 G - 4	IC640 IC641	E - 3 E - 6	Q75	E - 4 (B)	Q756	D - 5	RV719	D - 6		
C21	H - 6	IC701	D - 2	Q76 Q77	F - 4 (B) F - 4 (B)	Q757 Q758	D - 3 (B) D - 2 (B)	RV720	D - 5		
C22	H - 1	IC702	D - 8	Q78	F - 4 (B)	Q/36	D - 2 (B)	RV721 RV722	D - 5		
C22 C23	H - 2	IC703	D - 7	Q79	E - 5 (B)	RV1	H - 2	RV723			
C24	H - 2	IC704	D - 6	Q80	E - 5 (B)	RV3	H - 3		- •		

H - 7 G - 1 G - 2 G - 2 H - 3 H - 4 G - 3

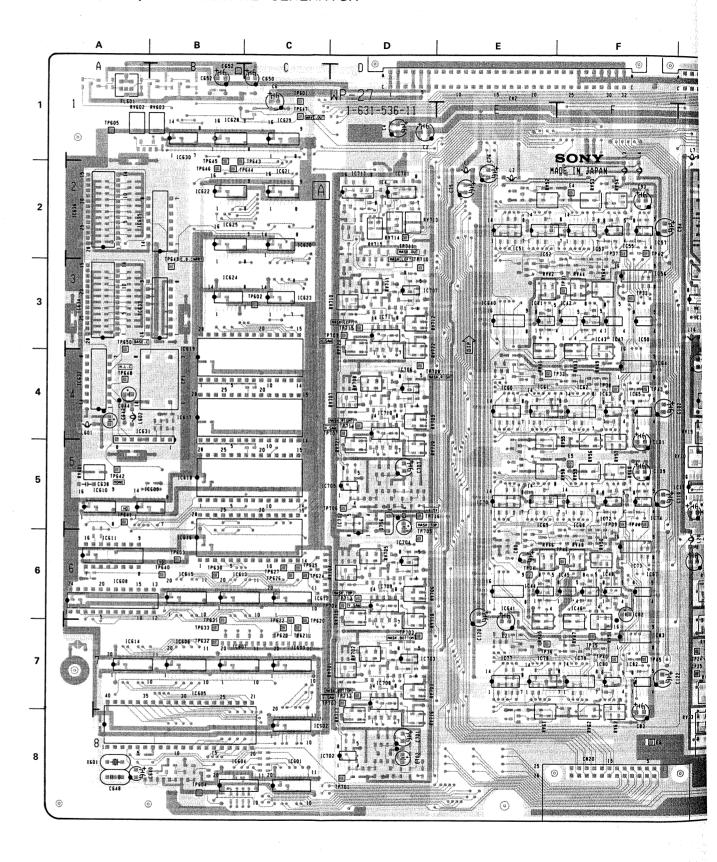
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TP707 D - 4
TP708 D - 4
TP709 D - 3
TP710 D - 3
TP711 D - 2
TP712 D - 7
TP713 D - 6
TP714 D - 4

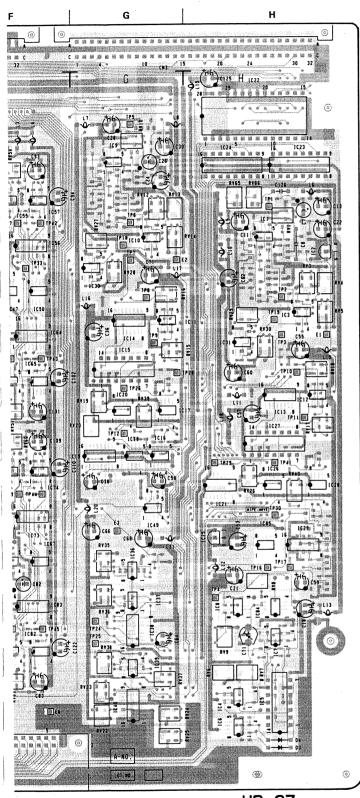
RV1 RV3 RV4 RV5 RV6 RV7 RV8 RV9 RV10 RV12 RV13 RV14 RV15

IC70
IC72
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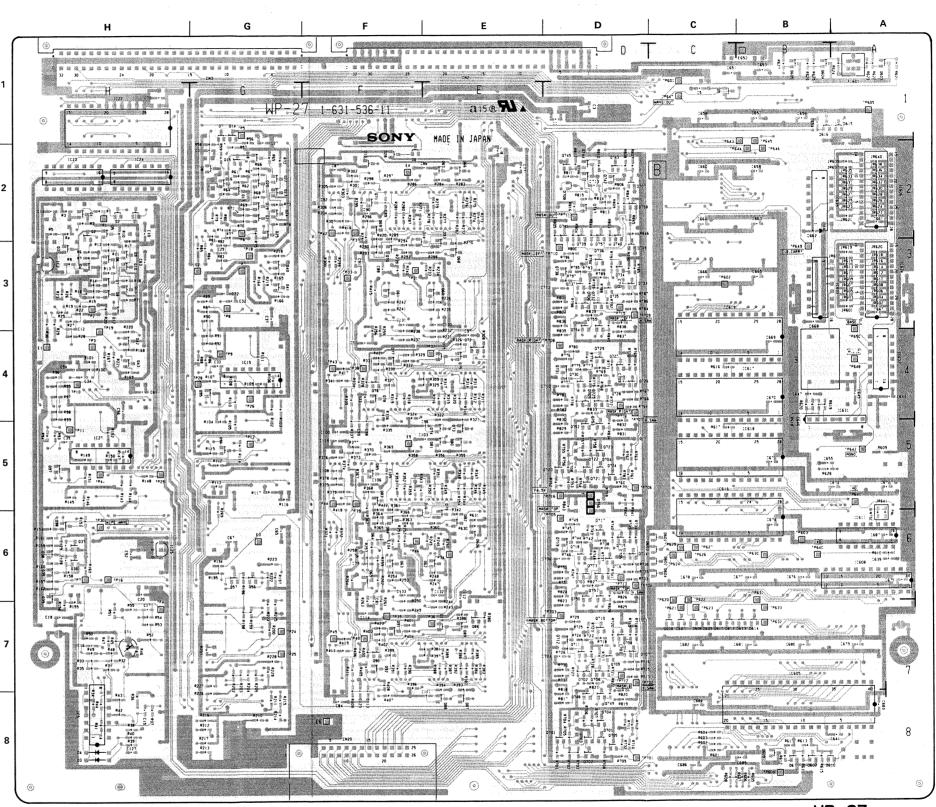
FL601

WP-27/27P; WIPE SIGNAL GENERATOR





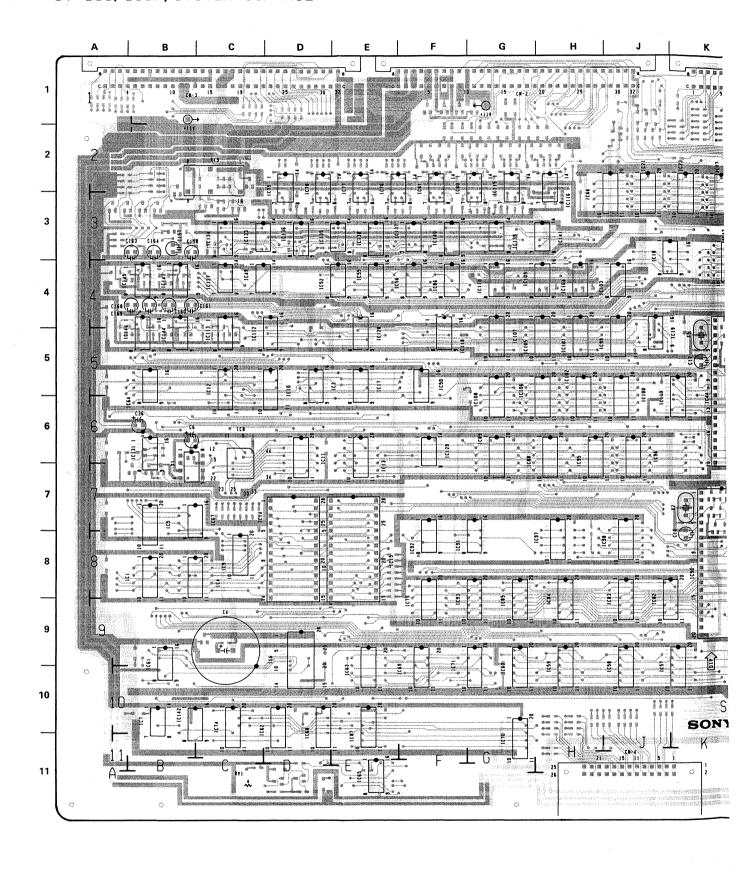
WP-27 -A SIDE-



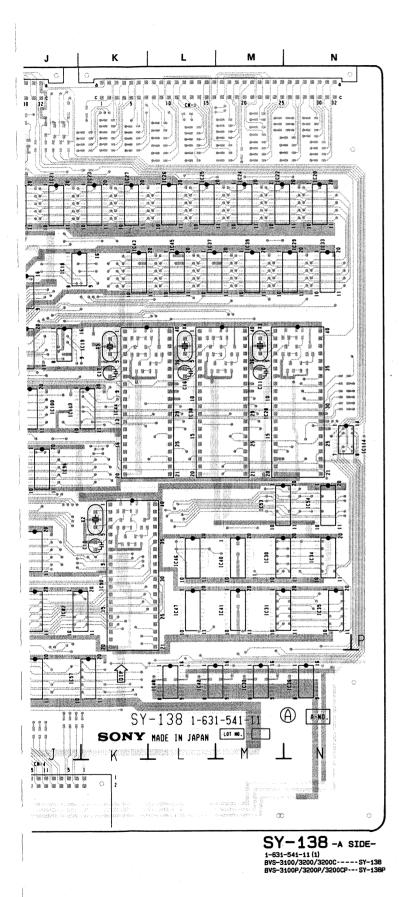
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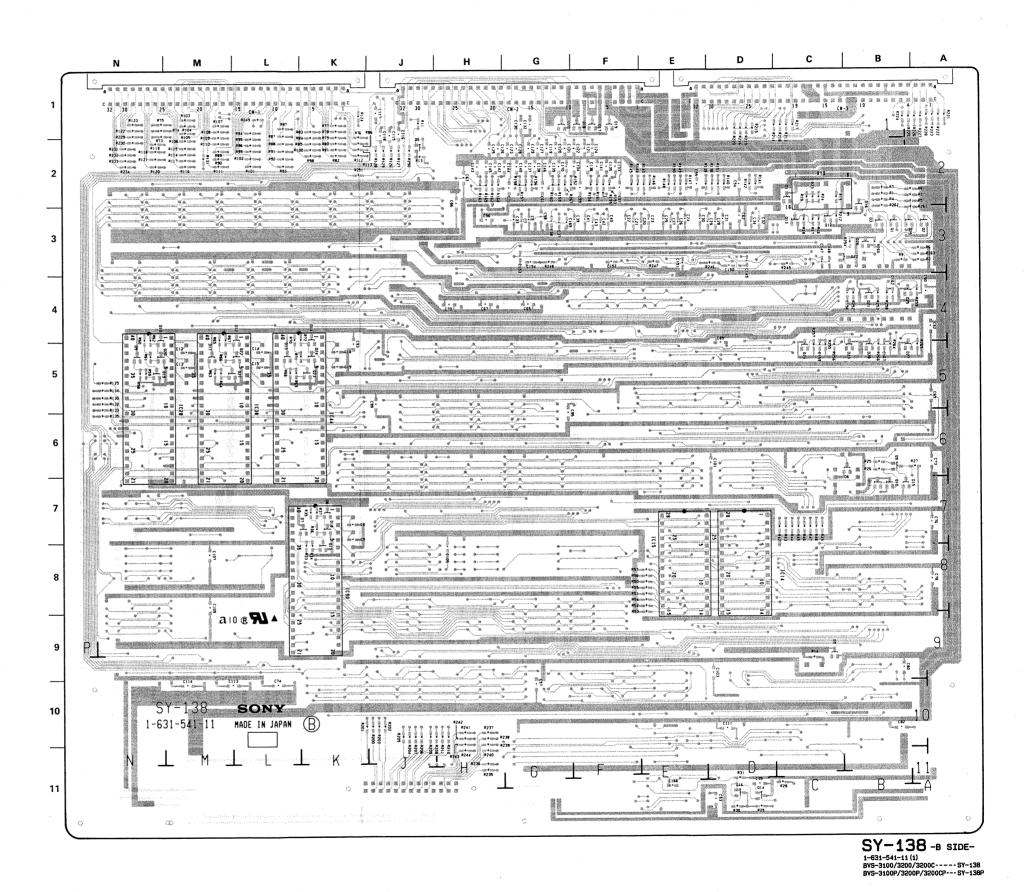
SY-138/138P; SYSTEM CONTROL

CNI14	C-8	IC50	F-5	Q1	B-3 (B)
CNI15 CNI28	E-7 M-5	IC52 IC53	D-4 M-7	Q2 Q3	A-3 (B) B-3 (B)
CNI38	M-5 L-5	IC53	M-7 N-7	Q9	B-6 (B)
CNI44	K-6	IC55	E-4	Qio	B-7 (B)
CNI90	K-8	IC56	E-4	Q11	B-7 (B)
CN1 CN2	L-1 G-1	IC57 IC58	J-10 J-10	Q12 Q13	C-3 (B) C-3 (B)
CN3	C-1	IC58	H-10	Q14	D-11 (B
CN4	J-11	IC60	G-10	Q15	J-1 (B)
	0.45	IC61	B-9	Q16	D-11 (B
D1 D5	C-2 (B) C-9 (B)	IC62 IC63	D-10 E-10	Q17 Q18	K-7 (B) K-7 (B)
D6	B-6 (B)	IC64	B-6	Q19	M-5 (B)
07	K-7 (B)	IC65	E-11	Q20	M-5 (B)
D8 D9	K-7 (B) N-4 (B)	IC66 IC67	H-3 C-7	Q21 Q22	L-5 (B) L-5 (B)
D10	N-4 (B)	IC68	D-10	Q23	K-5 (B)
011	M-4 (B)	IC69	F-10	Q24	K-5 (B)
012	L-4 (B)	IC70	G-11	Q25	A-3 (B)
D13 D14	L-5 (B) K-4 (B)	IC71 IC74	F-10 C-10	RV1	C-11
015	A-7 (B)	IC75	F-9		•
016	B-2 (B)	IC76	E-2	RY9	C-2
217	F-1 (B)	IC77	E-2	Vı	B-7
D18 D19	F-1 (B) F-1 (B)	IC78 IC79	D-2 D-2	X1 X2	K-7
D20	F-1 (B)	IC80	F-2	X3	M-4
D21	B-4 (B)	IC81	F-2	X4	L-4
D22 D23	B-3 (B) B-5 (B)	IC82 IC83	J-9	X5	K-5
)23)24	C-5 (B)	IC84	H-9		
D25	A-4 (B)	IC85	G-9		
026	B-3 (B)	IC86	F-4		
D27 D28	A-5 (B) B-5 (B)	IC87 IC88	E-10 G-6		
		IC89	G-6		
C1	B-8 E-5	IC90	K-8 F-8		
C3 C4	C-8	IC91 IC92	F-8		
C5	B-7	IC93	F-9		
C6	D-9	IC95	H-6		
C7 C8	B-10 C-6	IC96 IC97	J-6 H-8		
C9	Č-8	IC98	J-8		
IC10	D-5	IC99	H-5		
IC11 IC12	D-6 C-5	IC100 IC101	J-6 H-5		
C13	E-6	IC102	H-5		
C14	C-7	IC103	H-4		
IC15 IC17	E-8 E-5	IC104 IC105	H-4 G-5		
C18	J-3	IC105	G-5		
C19	K-5	IC107	G-5		
C20	N-2	IC108	G-4		
C21 C22	J-2 M-2	IC109 IC110	G-4 G-4		
C23	K-2	IC112	C-5		
C24	M-2	IC113	C-5		
C25 C26	L-2 L-2	IC114 IC115	N-6 G-2		
C27	K-2	IC116	H-3		
C28	M-6	IC117	J-6		
C29	N-3	IC118	F-5 C-4		
C30 C31	M-8 M-8	IC127 IC128	E-5		
C32	M-10	IC129	F-6		
C33	N-3	IC131	B-6		
C34 C35	N-8 N-9	IC133 IC134	C-3		
C36	N-10	IC135	D-3		
C37	L-3	IC136	D-3		
C38	L-6 M-3	IC137 IC138	E-3 E-3		
C39 C40	M-3 M-8	IC138	E-3 G-3		
C41	M-9	IC140	F-3		
C42	L-10	IC141	H-3		
C43 C44	K-3 K-6	IC142 IC143	B-10 B-4		
IC44 IC45	L-3	IC143	B-4 B-5		
C46	L-8	IC145	A-4		
C47 C48	L-9 L-10	IC146	A-5		



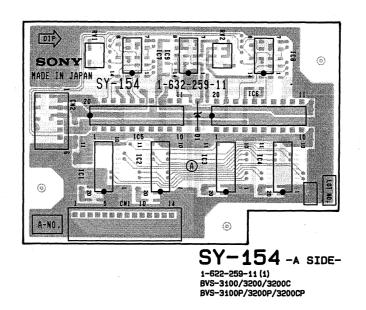
NOTE *-*; *-*A SIDE *-*(B); *-*B SID

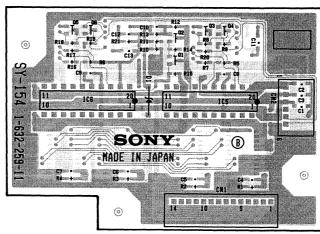




8-12

SY-154; 12BIT DA CHANGER



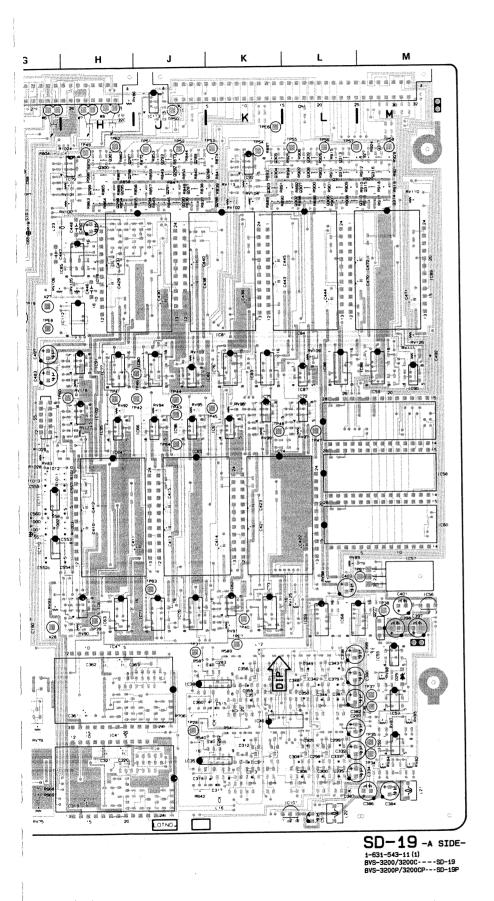


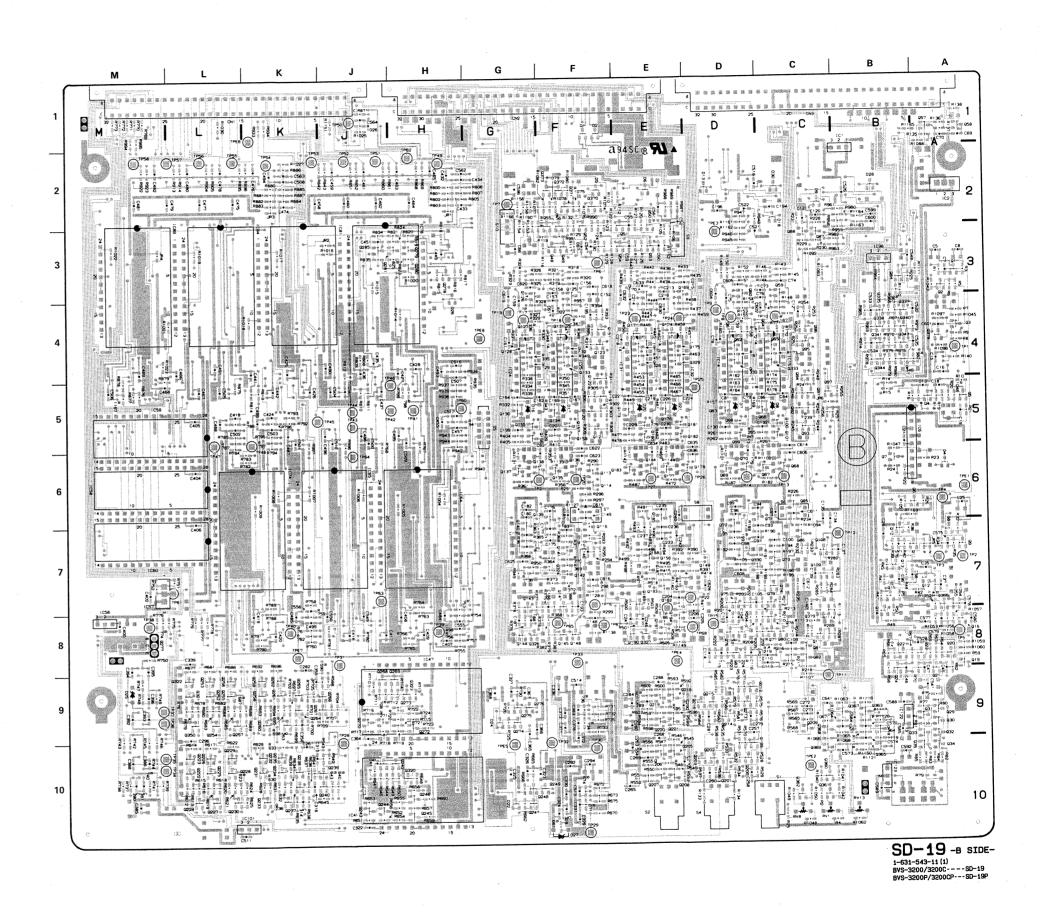
SY-154 -B SIDE-1-622-259-11 (1) BVS-3100/3200/3200C BVS-3100P/3200P/3200CP

SD-19/19P; SIGNAL GENERATOR FOR SIGNAL PROCESSOR

SD-19/19P (1-631-543-11)						A B C D E F G H
CN1 L - 1	Q7	Q205 E - 10 (B) Q206 E - 10 (B) Q207 E - 10 (B) Q208 E - 10 (B) Q209 C - 9 (B) (B) Q211 D - 9 (B) Q211 D - 9 (B) Q211 D - 9 (B) (B) Q212 D - 9 (B) (B) Q213 D - 9 (B) (B) Q214 D - 9 (B) (B) Q215 D - 9 (B) (B) Q215 D - 9 (B) (B) Q216 D - 9 (B) (B) Q217 E - 9 (B) (B) Q219 E - 9 (B) (B) Q219 E - 9 (B) (B) Q210 E - 9 (B) (B) Q210 E - 9 (B) (B) Q211 E - 9 (B) (B) Q221 E - 10 (B) (B) Q222 L - 10 (B) (B) Q223 L - 10 (B) (B) Q224 L - 10 (B) (B) Q225 L - 10 (B) (B) Q225 L - 10 (B) (B) Q227 L - 10 (B) (B) Q230 L - 10 (B) (B) Q231 K - 10 (B) (B) Q231 K - 10 (B) (B) Q232 K - 10 (B) (B) Q233 K - 10 (B) (B) Q331 K - 10 (B) (B) Q332 K - 10 (B) (B) Q333 K - 10 (B) (B) Q334 K - 10 (B) (B) Q335 K - 10 (B) (B) Q337 K - 10 (B) (B) Q338 K - 10 (B) (B) Q339 J - 10 (B) (B) Q339 J - 10 (B) (B) Q344 J - 10 (B) (B) Q344 J - 10 (B) (B) Q345 H - 10 (B) (B) Q346 H - 10 (B) (B) Q347 G - 10 (B) (B) Q348 G - 10 (B) (B) Q349 F - 10 (B) (B) Q340 J - 10 (B) (B) Q344 L - 9 (B) (B) Q345 K - 9 (B) (B) Q346 H - 10 (B) (B) Q347 G - 10 (B) (B) Q348 G - 10 (B) (B) Q349 F - 10 (B) (B) Q340 J - 10 (B) (B) Q341 K - 9 (B) (B) Q342 K - 9 (B) (B) Q343 K - 9 (B) (B) Q344 B G - 10 (B) (B) Q345 H - 10 (B) (B) Q346 H - 10 (B) (B) Q347 G - 10 (B) (B) Q348 G - 10 (B) (B) Q349 F - 10 (B) (B) Q340 J - 9 (B) (B) Q341 J - 9 (B) (B) Q342 K - 9 (B) (B) Q343 K - 9 (B) (B) Q344 B G - 10 (B) (B) Q345 B C - 9 (B) (B) Q346 B C - 9 (B) (B) Q347 G - 9 (B) (B) Q348 G - 10 (B) (B) Q349 F - 10 (B) (B) Q349 F - 10 (B) (B) Q340 J - 10 (B) (B) Q341 B - 9 (B) (B) Q342 B C - 9 (B) (B) Q343 B C - 9 (B) (B) Q344 B G - 10 (B) (B) Q345 B C - 9 (B) (B) Q346 B C - 9 (B) (B) Q347 B C - 9 (B) (B) Q348 B C - 9 (B) (B) Q349 F - 10 (B) (B) Q340 J - 9 (B) (B) Q3	Q372 F - 2 (B) Q373 F - 2 (B) Q374 F - 2 Q375 F - 2 Q376 A - 1 Q377 D - 8 Q378 A - 4 (B) Q379 C - 8 (B) RV1 C - 10 RV2 A - 5 RV4 B - 5 RV5 B - 5 RV6 A - 6 RV7 A - 6 RV8 C - 10 RV9 A - 7 RV10 A - 7 RV10 A - 7	RV17 E - 2 RV18 F - 2 RV19 F - 2 RV21 E - 2 RV221 E - 2 RV221 E - 2 RV222 C - 3 RV224 C - 3 RV225 D - 3 RV226 D - 6 RV230 D - 7 RV31 D - 8 RV32 C - 2 RV33 D - 7 RV31 D - 8 RV32 C - 2 RV33 D - 7 RV31 D - 8 RV32 C - 2 RV33 B - 2 RV38 B - 2 RV38 B - 2 RV38 B - 2 RV39 B - 5 RV41 D - 5 RV42 C - 5 RV41 D - 5 RV42 C - 5 RV43 C - 2 RV45 D - 2 RV46 G - 3 RV47 F - 3 RV48 G - 3 RV49 F - 6 RV51 G - 10 RV56 C - 3 RV66 D - 6 RV57 E - 5 RV69 E - 6 RV51 E - 7 RV55 G - 10 RV77 F - 10 RV78 F - 10 RV78 F - 10 RV79 G - 10 RV70 G - 5 RV69 E - 6 RV711 E - 7 RV75 G - 10 RV70 G - 10 RV80 F - 9 RV81 F - 9 RV82 M - 9 RV82 M - 9 RV83 G - 6 RV84 M - 10 RV80 F - 9 RV81 K - 8 RV93 G - 6 RV80 G - 7 RV79 G - 10 RV80 G - 9 RV81 F - 9 RV81 K - 2 RV100 M - 2 RV101 M - 2 RV101 M - 2 RV101 M - 2 RV101 M - 4 RV101 K - 2	RV114 B - 2 RV115 B - 2 RV116 H - 5 RV118 C - 2 RV119 C - 2 RV126 M - 4 RV130 B - 4 RV131 B - 4 RV132 B - 8 RV134 E - 3 S1 C - 10 S2 E - 10 S4 D - 10 S5 G - 5 S6 C - 6 S7 F - 6 S8 D - 3 S10 G - 3 TPE1 A - 6 TPE2 C - 10 TPE3 D - 3 TPE4 E - 8 TPE5 G - 9 TPE6 K - 1 TPE7 K - 8 TPE8 G - 4 TP1 A - 4 TP2 A - 7	

NOTE *-* ; *-* A SIDE *-*(B); *-* B SIDE

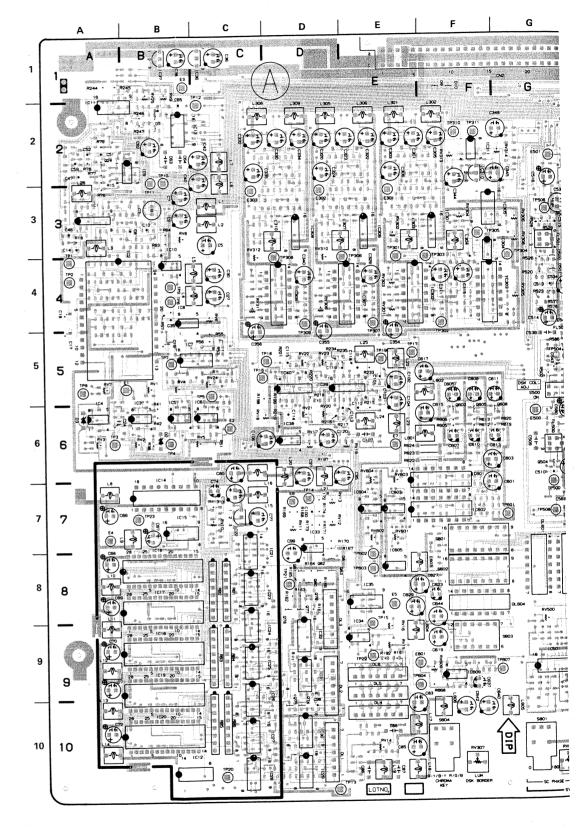




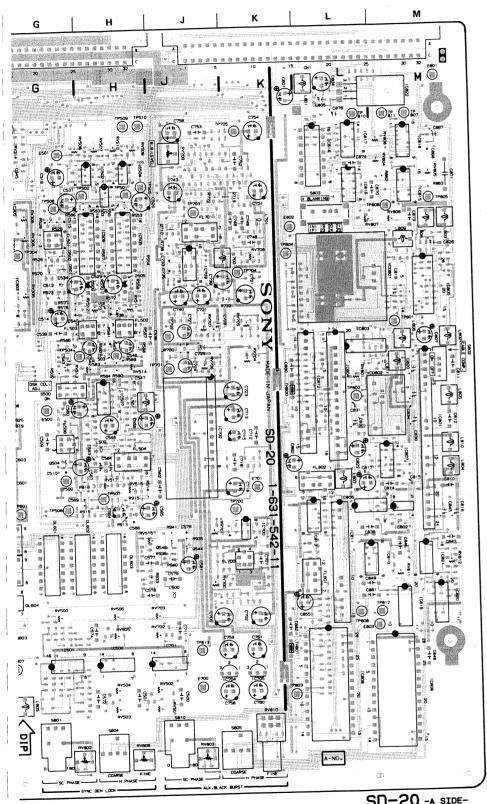
8-24

SD-20/20P; SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR

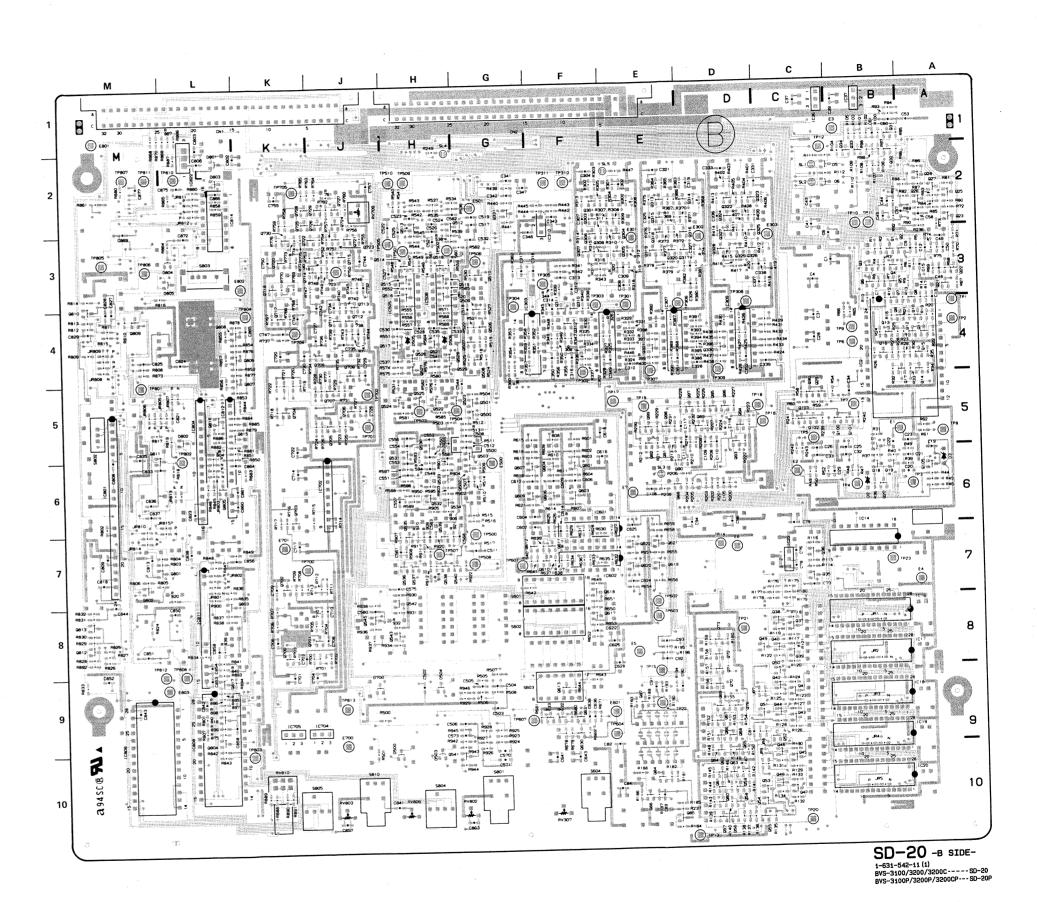
	/20P (1-631-542		JR812 L - 2 (B)	Q80 D - 8	Q530 H - 5 (B)	Q818 L - 9 (B)	RV805 M - 2	TP805 M - 3
CN1 CN2	K - 1 G - 1	IC30 D - 10 IC31 D - 9	JR813 L - 6 (B)	Q81 D - 8	Q531 H - 6 (B) Q532 H - 6 (B)	RB1 C - 8	RV806 M - 3 RV807 M - 3	TP806 M - 3 TP807 M - 2
DL1	D - 10	IC32 D - 9 IC33 D - 7	JR814 M - 7 (B) JR815 C - 6 (B)	Q82 D - 8 Q83 D - 8	Q533 H - 6 (B)	RB2 C - 8	RV808 M - 2	TP808 L - 9 TP810 L - 2
DL2	D - 9	IC34 E - 8	Q1 B-3(B)	Q84 E - 10 (B) Q85 E - 10 (B)	Q534 H - 6 (B) Q535 H - 6 (B)	RB3 C - 9 RB4 C - 9	RV809 H - 10 RV810 K - 10	TP811 M - 2
DL3 DL4	D - 8 E - 10	IC35 E - 8 IC36 C - 1	Q2 A - 3 (B)	Q86 E - 10 (B)	Q536 H - 7 (B)	RB5 C - 10 RB6 C - 10	RV811 M - 8 RV812 M - 8	TP812 M - 8 TP813 J - 9
DL5 DL6	E - 9 E - 9	IC37 B - 1 IC38 D - 6	Q3 B - 3 (B) Q4 B - 3 (B)	Q87 E - 9 (B) Q88 E - 6 (B)	Q537 H - 7 (B) Q538 H - 7 (B)			
DL601	G - 7	IC39 D - 5	Q5 B - 3 (B) Q6 B - 3 (B)	Q89 D - 5 (B) Q90 E - 6 (B)	Q539 H - 6 (B) Q540 H - 7 (B)	RV1 B - 5 RV2 B - 6	S500 G - 5 S601 F - 7	VCO801 L - 4 VCO802 M - 5
DL602 DL603	H - 7 H - 8	IC40 D - 5 IC301 F - 3	Q7 B - 3 (B)	Q91 E - 6 (B)	Q541 H - 10 (B)	RV3 A - 6	S602 F - 8 S603 G - 9	
D1	B - 5 (B)	IC302 F - 4 IC303 G - 4	Q8 A - 3 (B) Q9 B - 4 (B)	Q92 E - 6 (B) Q93 D - 6 (B)	Q542 H - 7 (B) Q543 H - 8 (B)	RV5 C - 6	S604 F - 10	
D2	B - 6	IC304 G - 3	Q10 A - 4 (B)	Q94 D - 5 (B) Q95 D - 5 (B)	Q544 J-8 Q545 J-8(B)	RV6 C - 4 RV7 A - 5	S801 G - 10 S802 M - 5	
D3 D4	A - 6 B - 2	IC305 G - 3 IC306 E - 3	Q12 A - 4 (B)	Q96 D - 5 (B)	Q546 J - 7	RV8 B - 3 RV9 B - 1	S803 L - 3 S804 H - 10	
D5 D6	B - 2 (B) B - 2 (B)	IC307 E - 4 IC308 D - 3	Q13 B - 4 (B) Q14 A - 5 (B)	Q97 D - 5 (B) Q98 E - 5 (B)	Q601 F-6(B) Q602 F-6	RV10 C - 7	S805 K - 10	
D7	B - 2	IC309 D - 4	Q15 A - 4 (B)	Q99 E - 5 (B) Q100 B - 5 (B)	Q603 F - 6 (B) Q604 F - 6 (B)	RV11 D - 7 RV12 D - 7	S810 J - 10	
D8 D9	D - 8 F - 1	IC311 F - 2 IC500 H - 9	Q16 B - 4 (B) Q17 A - 5 (B)	Q101 B - 5 (B)	Q605 F - 6	RV13 D - 7	TH800 K - 5 TH801 K - 9	
D10 D500	F - 1 H - 10 (B)	IC501 G - 9 IC502 H - 2	Q18 B - 6 (B) Q19 B - 6 (B)	Q102 C - 5 (B) Q103 C - 5 (B)	Q606 F-6(B) Q607 G-6(B)	RV14 E - 10 RV15 E - 9		
D501	G - 4	IC503 H - 3	Q20 B - 6 (B)	Q105 A - 6 (B) Q301 F - 2 (B)	Q608 G - 6 Q609 G - 6 (B)	RV16 E - 9 RV17 D - 6	TP1 A - 3 TP2 A - 4	
D502 D503	G - 4 H - 10 (B)	IC504 H - 2 IC505 H - 3	Q21 A - 3 Q22 A - 3 (B)	Q302 E - 2 (B)	Q610 F - 7 (B)	RV18 C - 6	TP3 A - 6 TP4 B - 6	
D504 D505	H - 9 (B) H - 4	IC506 H - 3 IC507 H - 5	Q23 A - 2 (B) Q24 A - 2	Q303 F - 2 (B) Q304 E - 3 (B)	Q611 F - 7 (B) Q612 G - 7 (B)	RV19 E - 6 RV20 D - 6	TP5 C - 5	
D506	H - 4	IC601 F - 6	Q25 A - 2 (B) Q26 A - 2 (B)	Q305 E - 3 (B) Q306 F - 3 (B)	Q613 F - 9 (B) Q617 E - 8 (B)	RV21 D - 6 RV22 D - 5	TP6 B - 4 TP7 B - 5	
D700 D801	J - 9 (B) L - 2 (B)	IC602 F - 7 IC603 E - 7	Q27 A - 2 (B)	Q307 F - 3 (B)	Q618 E - 7 (B)	RV23 D - 5 RV24 C - 5	TP8 A - 5 TP9 B - 4	
D802 D803	L - 5 (B) L - 2 (B)	1C604 E - 7 1C605 E - 7	Q28 A - 2 (B) Q29 C - 5 (B)	Q308 E - 3 (B) Q309 F - 4 (B)	Q620 E - 7 (B)	RV25 B - 1	TP10 B - 2	
D804	L - 3 (B)	IC609 F - 9 IC700 K - 7	Q30 C - 5 (B) Q31 B - 1 (B)	Q310 F - 4 (B) Q311 F - 4 (B)	Q621 E - 7 (B) Q622 E - 7 (B)	RV301 E - 4 RV302 E - 3	TP11 B - 3 TP12 C - 1	
D805	L - 3 (B)	IC701 J - 9	Q32 B - 2 (B)	Q312 F - 4 (B)	Q630 F - 9 (B) Q631 F - 9 (B)	RV303 E - 4 RV304 F - 3	TP13 D - 10 TP14 D - 7	
E1 E2	B - 5 C - 6	IC702 J - 6 IC703 J - 4	Q33 B - 2 (B) Q34 B - 2 (B)	Q313 E - 2 (B) Q314 D - 2 (B)	Q632 F - 9 (B)	RV305 G - 4	TP15 C - 5	
E3	A - 1 A - 7	IC704 J - 9 IC705 K - 9	Q35 C - 7 (B) Q36 C - 7 (B)	Q315 E - 2 (B) Q316 D - 3 (B)	Q633 F - 9 (B) Q700 K - 8 (B)	RV306 G - 3 RV307 F - 10	TP16 C - 5 TP17 E - 5	
E4 E5	E - 8	IC801 M - 6	Q37 C-8(B)	Q317 D - 3 (B) Q318 E - 3 (B)	Q701 J-8(B) Q702 K-7(B)	RV308 G - 3 RV309 D - 4	TP18 D - 5 TP19 E - 5	
E6 E7	D - 7 E - 6	IC802 M - 7 IC803 L - 5	Q38 C - 8 (B) Q39 C - 8 (B)	Q319 E - 3 (B)	Q703 K - 6 (B)	RV310 D - 3	TP20 C - 10 TP21 D - 8	
E301 E302	E - 3 D - 3	IC804 L - 5 IC805 M - 4	Q40 C - 8 (B) Q41 C - 9 (B)	Q320 E - 3 (B) Q321 E - 4 (B)	Q704 K - 5 (B) Q705 J - 5 (B)	RV311 C - 4 RV312 C - 3	TP22 E - 9	
E303	C - 3	IC806 L - 7	Q42 C - 9 (B) Q43 C - 9 (B)	Q322 D - 2 (B) Q323 C - 2 (B)	Q706 J-5(B) Q710 J-3	RV313 F - 2 RV314 G - 2	TP23 B - 7 TP301 E - 3	
E500 E501	G - 6 G - 2	IC807 M - 6 IC808 L - 9	Q44 C - 9 (B)	Q324 D - 2 (B)	Q711 J - 4 (B)	RV500 G8 RV501 J-10	TP302 F - 4 TP303 F - 3	
FL700	K - 8	IC809 M - 9 IC810 M - 8	Q45 C - 10 (B) Q46 C - 10 (B)	Q325 C - 3 (B) Q326 D - 3 (B)	Q712 J - 4 (B) Q713 J - 3 (B)	RV502 J-9	TP304 G - 3	
FL701	J - 3	IC811 L - 7 IC812 L - 5	Q47 C - 10 (B) Q48 C - 10 (B)	Q327 D - 3 (B) Q328 D - 3 (B)	Q714 J - 3 (B) Q715 J - 3 (B)	RV503 H - 10 RV504 H - 9	TP305 F - 3 TP306 E - 4	
FL801 FL802	L - 8 L - 6	IC813 L - 7	Q49 C-8(B)	Q329 D - 3 (B) Q330 D - 4 (B)	Q716 J-3(B) Q717 K-4(B)	RV505 H - 9 RV506 H - 8	TP307 E - 4 TP308 D - 4	
IC1	A - 3	IC814 L - 2 IC815 M - 3	Q50 C - 8 (B) Q51 C - 9 (B)	Q331 G - 2 (B)	Q718 K-3(B)	RV507 H - 2	TP309 D - 5 TP310 F - 2	
IC2 IC3	B - 3 B - 5	IC816 L - 3 IC817 L - 2	Q52 C - 9 (B) Q53 C - 10 (B)	Q500 G - 5 (B) Q501 G - 5 (B)	Q719 K - 3 Q720 K - 3 (B)	RV508 H - 2 RV509 H - 2	TP311 F - 2	
IC4	A - 5	IC818 M - 2	Q54 D - 10 (B) Q55 C - 10 (B)	Q502 G - 6 (B) Q503 G - 6 (B)	Q721 J - 3 (B) Q722 J - 3 (B)	RV510 H - 2 RV511 H - 4	TP500 G - 7 TP501 H - 3	
IC5 IC6	B - 5 C - 5	IC819 M - 8 IC820 M - 8	Q56 D - 10 (B)	Q504 G - 6	Q723 J - 3 (B) Q724 J - 2 (B)	RV512 H - 4 RV513 G - 5	TP502 H - 3 TP503 H - 5	
IC7 IC8	B - 5 B - 4	IC821 M - 8 IC822 M - 2	Q57 D - 10 (B) Q58 D - 10 (B)	Q506 G - 4 (B) Q507 G - 4 (B)	Q725 K - 2 (B)	RV514 H - 5	TP504 G - 5	
IC9	B - 2 B - 3	JR1 B - 8 (B)	Q59 D - 10 (B) Q60 D - 10 (B)	Q508 G - 4 (B) Q509 G - 4 (B)	Q726 J - 2 (B) Q727 J - 2 (B)	RV515 H - 7 RV516 H - 7	TP505 J - 3 TP506 G - 3	
IC10 IC11	A - 2	JR2 B - 8 (B)	Q61 D - 10 (B)	Q510 G - 3 (B)	Q728 K - 2 (B) Q729 J - 2 (B)	RV517 H - 7 RV601 E - 7	TP507 H - 7 TP508 G - 7	
IC12 IC13	B - 10 C - 2	JR3 B - 9 (B) JR4 B - 9 (B)	Q62 D - 10 (B) Q63 D - 10 (B)	Q513 H - 2 (B)	Q730 K - 3 (B)	RV602 E - 7	TP509 H - 2 TP510 H - 2	
IC14 IC15	B - 6 B - 7	JR5 B - 10 (B) JR7 D - 9 (B)	Q64 D - 10 (B) Q65 D - 10 (B)	Q514 H - 3 (B) Q515 H - 3 (B)	Q801 L - 7 (B) Q802 M - 7 (B)	RV603 E - 6 RV604 E - 6	TP601 G - 7	
IC16	B - 7	JR8 D - 9 (B)	Q66 D - 9 (B) Q67 D - 9 (B)	Q516 H - 3 (B) Q517 H - 4 (B)	Q803 K - 7 (B) Q804 L - 9 (B)	RV609 F - 9 RV700 J - 8	TP602 E - 8 TP603 E - 8	
IC17 IC18	B - 8 B - 9	JR700 J - 5	Q68 D - 9 (B)	Q518 H - 3 (B)	Q805 L - 6 (B)	RV701 J-7 RV702 J-9	TP604 E - 9 TP607 G - 9	
IC19 IC20	B - 9 B - 10	JR801 L - 7 (B) JR802 L - 7 (B)	Q69 D - 9 (B) Q70 D - 9 (B)	Q519 H - 3 (B) Q520 H - 3 (B)	Q807 K - 4 (B)	RV703 J-8	TP700 K - 7	
IC21	D - 8	JR803 ! - 6 (B)	Q71 D - 9 (B) Q72 D - 8 (B)	Q521 H - 4 (B) Q522 H - 5 (B)	Q808 L - 4 (B) Q809 M - 4 (B)	RV704 K - 5 RV705 K - 4	TP701 J-5 TP702 J-5	
IC22 IC23	C - 7 D - 8	JR804 L - 5 (B) JR805 M - 5 (B)	Q73 D - 8 (B)	Q523 G - 5 (B)	Q810 M - 4 (B) Q811 M - 6 (B)	RV706 J - 5 RV708 K - 4	TP703 J - 3 TP704 K - 4	
IC24 IC25	D - 9 D - 9	JR806 M - 5 (B) JR807 L - 5 (B)	Q74 D - 10 Q75 D - 10	Q524 H - 5 (B) Q525 H - 5 (B)	Q812 M - 8 (B)	RV709 J - 2	TP705 K - 2	
IC26	D - 9 D - 10	JR808 M - 4 (B) JR809 M - 4 (B)	Q76 D - 9 (B) Q77 D - 8	Q526 H - 4 (B) Q527 H - 4 (B)	Q813 M - 8 (B) Q815 K - 5 (B)	RV801 L - 5 RV802 G - 10	TP801 M - 4 TP802 L - 5	
IC27 IC28	D - 10	JR810 M - 6 (B)	Q78 D - 8 Q79 D - 8	Q528 G - 4 (B) Q529 G - 4 (B)	Q816 L - 5 (B) Q817 L - 9 (B)	RV803 J-10 RV804 M-2	TP803 K - 9 TP804 K - 3	
IC29	D - 10	JR811 L - 2 (B)	dia n.a	404				



NOTE *-* ; *-* A SIDE *-*(B); *-* B SIDE



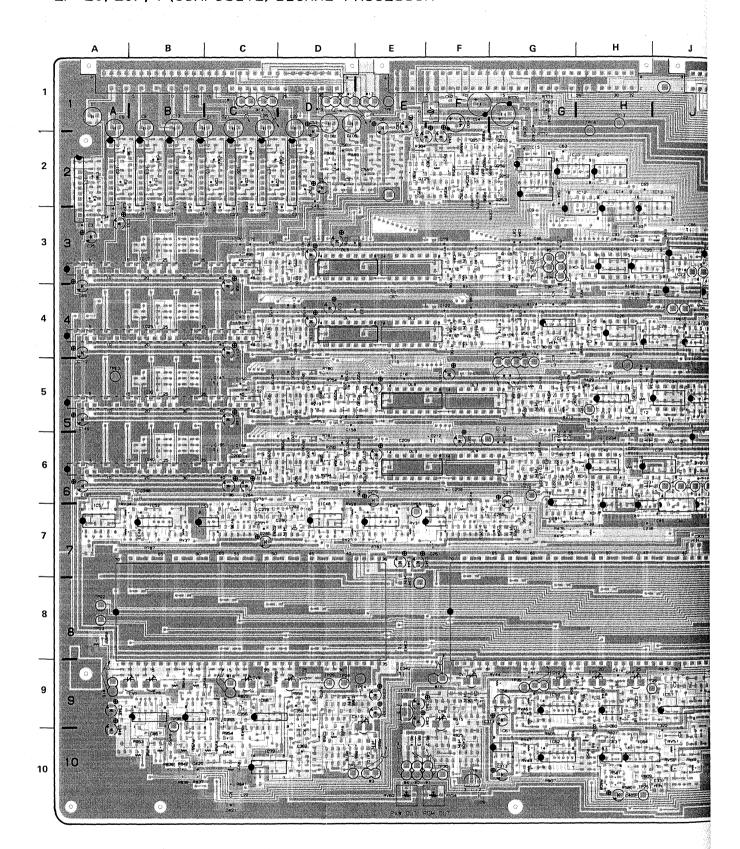
SD-20 -A SIDE-1-631-542-11 (1) BVS-3100/3200/32000:----SD-20 avs-3100P/3200P/3200C----SD-20P

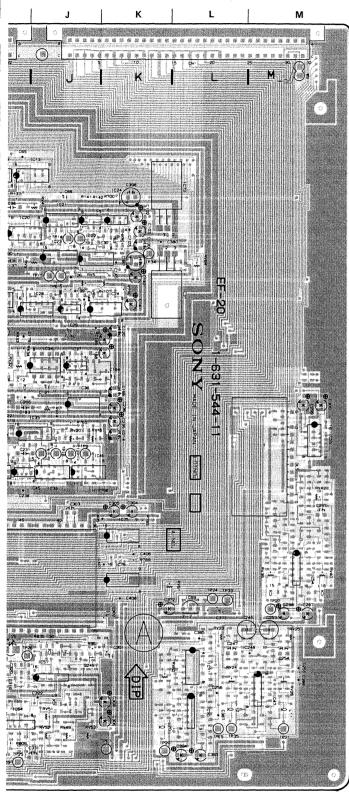


8-32

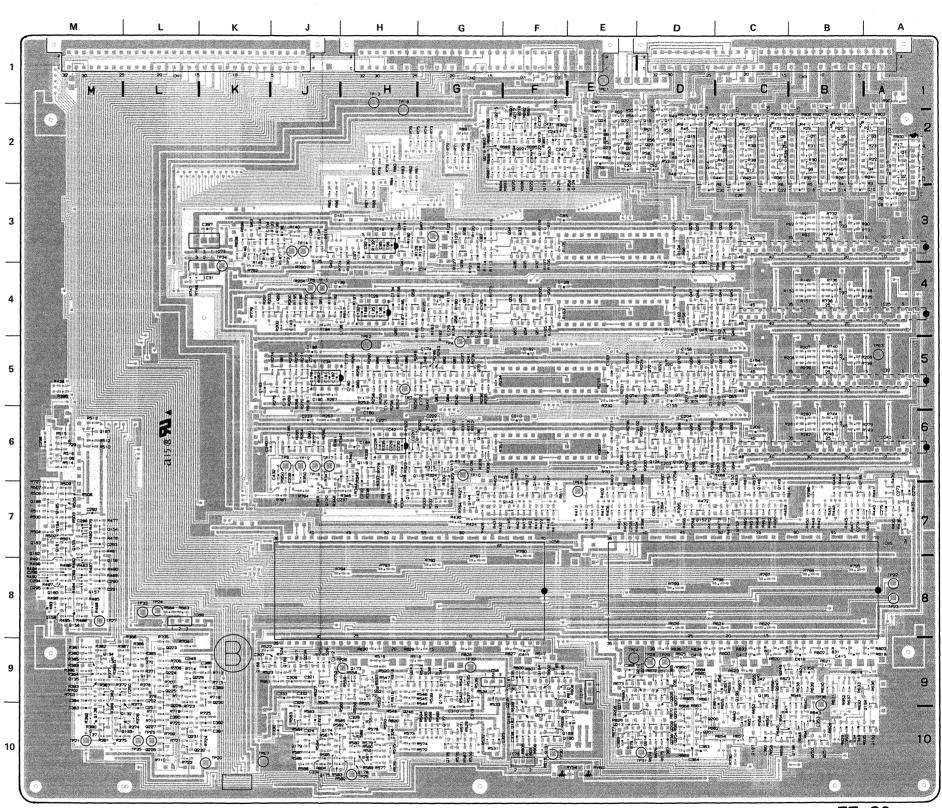
EF-20/20P; Y (COMPOSITE) SIGNAL PROCESSOR

EF-20/20P (1-631-544-11)								
CN1 L - 1 IC57 CN2 F - 1 IC58	J - 9 Q62 G - 9 Q63	J - 4 (B) C - 5 (B) C - 5 (B)	Q147	B - 7 (B) B - 7 (B)	Q232 Q234	L - 10 (B) J - 9 (B) F - 10 (B)	RV68 RV69 RV70	C - 9 D - 10 D - 9
CN3 B - 1 IC59 IC60 CV1 F - 9 IC61 CV2 G - 9 IC62	G - 9 Q64 H - 9 Q65 G - 10 Q66 G - 10 Q67	C - 5 (B) C - 5 (B) D - 5 (B) D - 5 (B)	Q149 Q150	C - 7 (B) C - 7 (B) C - 7 (B) D - 7 (B)	Q235 Q237 Q238 Q240	F - 10 (B) F - 10 (B) D - 10 (B) G - 1	RV71 TPE1	C - 10 G - 6
CV3 H - 9 IC63 CV4 H - 9 IC64 CV6 F - 9 IC65	H - 10 Q68 H - 10 Q69 C - 7 Q70	D - 5 (B) D - 5 D - 5 (B)	Q152 Q153	D - 7 (B) C - 7 (B) M - 7 (B)	Q241 Q242 Q243	G - 1 C - 9 (B) H - 9 (B)	TPE2 TPE3 TPE4	H - 5 A - 5 D - 9
CV7 B - 9 IC66 CV8 B - 9 IC67 CV9 C - 9 IC68	B - 9 Q71 B - 9 Q72 C - 9 Q73	D - 5 (B) D - 5 (B) E - 5 (B)	Q156 Q157	M - 7 (B) M - 8 (B) M - 8 (B)	Q244 Q245 Q246	H - 9 H - 10 H - 10 (B)	TPE5 TPE6 TPE7	L - 10 E - 7 K - 10
CV10 D - 9 IC69 CV12 E - 9 IC70 IC71	L - 8 Q74 L - 10 Q75 L - 9 Q76	E - 5 (B) D - 5 (B) D - 5	Q159 Q160	M - 8 (B) M - 8 (B) M - 8 (B)	Q247 Q248 Q249	C - 9 (B) C - 9 (B) J - 9	TP1 TP3 TP4	G - 3 J - 3 G - 4
DL1 E - 3 IC72 DL2 E - 4 IC73 DL3 F - 5 IC74 DL4 F - 6 IC75	C - 10 Q77 K - 3 Q78 K - 4 Q79 K - 7 Q80	D - 5 D - 5 G - 5 (B) G - 5 (B)	Q162 Q163	M - 7 (B) M - 7 (B) M - 7 (B) M - 7 (B)	Q250 Q251 Q252 Q253	B - 10 (B) B - 10 G - 2 G - 2	TP6 TP7 TP9	J - 4 H - 5 J - 6
DL5 M - 6 IC76 DL6 D - 3 IC77 DL7 D - 3 IC78	K - 8 Q81 E - 9 Q82 F - 10 Q83	G - 5 (B) G - 5 (B) G - 5 (B)	Q165 Q166	M - 7 (B) M - 7 (B) M - 6 (B)	Q254 Q255 Q256	F - 2 G - 2 G - 2	TP10 TP12 TP13	G - 6 J - 6 H - 1
DL8 E - 5 DL9 E - 6 Q1 Q2	Q84 A - 2 (B) Q85 A - 2 (B) Q86	G - 5 (B) H - 5 H - 5 (B)	Q169 Q170	K - 9 (B) J - 9 (B) G - 9 (B)	Q257 RV1	F - 2	TP14 TP15 TP16	J - 3 J - 4 J - 6
D1 F - 1 (B) Q3 D2 F - 1 (B) Q4 D4 A - 7 (B) Q5 D6 M - 6 (B) Q6	A - 2 (B) Q87 A - 2 (B) Q88 B - 2 (B) Q89 B - 2 (B) Q90	H - 5 (B) H - 5 (B) H - 5 (B) J - 6 (B)	Q172 Q173	G - 9 (B) H - 9 (B) H - 9 (B) J - 10 (B)	RV2 RV3 RV4 RV5	G - 4 H - 4 J - 3 J - 4	TP17 TP18 TP20 TP21	J - 6 H - 1 K - 10 M - 10
D7 D - 6 (B) Q7 D8 C - 6 (B) Q8 Q9	B - 2 (B) Q91 B - 2 (B) Q92 C - 2 (B) Q93	J - 5 (B) C - 6 (B) C - 6 (B)	Q175 Q176	J - 10 (B) J - 10 (B) J - 10 (B)	RV6 RV7 RV8	F - 4 G - 4 H - 4	TP22 TP23 TP24	A - 8 A - 8 L - 8
IC1 A - 2 Q10 IC2 A - 2 Q11 IC3 B - 2 Q12	C - 2 (B) Q94 C - 2 (B) Q95 C - 2 (B) Q96	C - 6 (B) D - 6 (B) D - 6 (B)	Q179 Q180	H - 10 (B) J - 10 (B) F - 9 (B)	RV9 RV10 RV11	H - 4 K - 4 G - 5	TP25 TP26 TP27	H - 10 H - 9 M - 8
IC4 B - 2 Q13 IC5 B - 2 Q14 IC6 C - 2 Q15 IC7 C - 2 Q16	C - 2 (B) Q97 D - 2 (B) Q98 D - 2 (B) Q99 D - 2 (B) Q100	D - 6 (B) D - 6 D - 6 (B) D - 6 (B)	Q182 Q183	F - 9 (B) F - 10 (B) F - 10 (B) F - 9 (B)	RV12 RV14 RV15 RV16	G - 6 J - 6 G - 5	TP28 TP29 TP30 TP31	D - 9 D - 9 F - 10 D - 10
IC8 D - 2 Q17 IC9 G - 2 Q18 IC10 G - 2 Q19	D - 2 (B) Q101 D - 2 (B) Q102 D - 2 (B) Q103	D - 6 (B) E - 6 (B) E - 6 (B)	Q185 Q186	F - 9 (B) F - 9 (B) F - 9 (B)	RV17 RV19 RV20	G - 6 H - 6 J - 6	TP32 TP33 TP34	G - 9 L - 8 K - 4
IC11 H - 2 Q20 IC12 H - 3 Q21 IC13 J - 3 Q22	D - 2 (B) Q104 E - 2 (B) Q105 E - 2 (B) Q106	D - 6 (B) D - 6 D - 6	Q190 Q191	F - 10 (B) F - 10 (B) F - 10 (B)	RV21 RV23 RV24	F - 2 L - 9 L - 9	TP35 TP36	L - 10 B - 9
IC14 H - 3 Q23 IC15 G - 2 Q24 IC17 B - 3 Q25 IC18 G - 4 Q26	E - 2 (B) Q107 E - 2 (B) Q108 C - 3 (B) Q109 C - 3 (B) Q110	D - 6 G - 6 (B) G - 6 (B) G - 6 (B)	Q194 Q195	A - 10 (B) A - 9 (B) C - 9 (B) C - 9 (B)	RV25 RV26 RV27 RV28	M - 9 M - 9 D - 7 D - 7		
IC19 H - 3 Q27 IC20 H - 3 Q28 IC21 J - 3 Q29	C - 3 (B) Q111 D - 3 (B) Q112 D - 3 (B) Q113	G - 6 (B) G - 6 (B) G - 6 (B)	Q197 Q198	C - 10 (B) C - 10 (B) D - 9 (B)	RV30 RV31 RV32	F - 6 E - 7 H - 5		
IC22 J - 3 Q30 IC23 J - 4 Q31 IC24 K - 3 Q32	D - 3 (B) Q114 F - 3 (B) Q115 F - 3 (B) Q116	G - 6 G - 6 (B) G - 6 (B)	Q200 Q201 Q202	D - 10 (B) D - 10 (B) D - 9 (B)	RV33 RV34 RV36	B - 7 A - 7 C - 7		
IC25 B - 4 Q33 IC26 H - 4 Q34 IC28 J - 4 Q35 IC29 J - 4 Q36	F - 3 (B) Q117 F - 3 (B) Q118 F - 3 (B) Q119	G - 7 (B) H - 7 (B) H - 6 (B) J - 7 (B)	Q204 Q205	D - 10 (B) D - 10 (B) D - 9 (B)	RV37 RV38 RV39 RV40	B - 7 H - 7 M - 8		
IC30 J - 4 Q37 IC31 K - 4 Q38 IC32 B - 5 Q39	F - 3 (B) Q120 G - 3 Q121 G - 3 (B) Q122 G - 3 (B) Q123	F - 2 (B) F - 2 (B) E - 2 (B)	Q207 Q208	D - 9 (B) D - 10 (B) D - 10 (B) D - 10 (B)	RV42 RV43 RV44	M - 8 M - 7 G - 10 G - 9		
IC33 H - 5 Q40 IC34 J - 5 Q41 IC35 H - 6 Q42	G - 3 (B) Q124 H - 3 (B) Q125 J - 3 (B) Q126	E - 2 (B) F - 2 (B) E - 2 (B)	Q210 Q211 Q212	D - 9 (B) E - 9 (B) E - 9 (B)	RV45 RV46 RV47	G - 9 G - 9 G - 10		
IC36 J - 6 Q43 IC37 J - 5 Q44 IC38 J - 7 Q45	K - 3 (B) Q127 C - 4 (B) Q128 C - 4 (B) Q129	E - 2 (B) E - 2 (B) E - 2	Q214 Q215	E - 10 (B) E - 10 (B) G - 2 (B)	RV48 RV49 RV50	G - 9 J - 10 H - 10		
IC40 B - 6 Q46 IC41 G - 7 Q47 IC42 H - 6 Q48 IC44 H - 7 Q49	C - 4 (B) Q130 D - 4 (B) Q131 D - 4 (B) Q132 D - 4 (B) Q133	M - 9 (B) L - 9 (B) M - 10 (B) M - 10 (B)	Q217 Q218	G - 2 (B) F - 2 (B) F - 2 (B) F - 2 (B)	RV51 RV52 RV53 RV54	J - 10 J - 10 J - 10 F - 10		
IC45 H - 7 Q50 IC46 J - 7 Q51 IC47 M - 9 Q52	F - 4 (B) Q134 F - 4 (B) Q135 F - 4 (B) Q136	M - 9 (B) M - 9 (B) M - 10 (B)	Q220 Q221 Q222	F - 2 (B) F - 2 (B) F - 2 (B)	RV55 RV56 RV57	B - 10 B - 10 C - 9		
IC48 D - 7 Q53 IC49 E - 7 Q54 IC50 F - 7 Q55	F - 4 (B) Q137 F - 4 (B) Q138 F - 4 (B) Q139	M - 10 (B) E - 7 (B) E - 7 (B)	Q224 Q225	L - 9 (B) L - 9 (B) L - 9 (B)	RV58 RV59 RV60	B - 10 C - 10 E - 10		
IC51 A - 7 Q56 IC52 B - 7 Q57 IC53 B - 7 Q58 IC54 M - 8 Q59	G - 4 Q140 G - 4 (B) Q141 G - 4 (B) Q142 H - 4 (B) Q143	F - 7 (B) F - 7 (B) G - 7 (B) G - 7 (B)	Q227 Q228	L - 10 (B) L - 10 (B) L - 9 (B) L - 9 (B)	RV61 RV62 RV64 RV65	K - 8 K - 9 L - 4 A - 8		
IC55 M - 6 Q60 IC56 G - 8 Q61	H - 4 (B) Q144 J - 4 (B) Q145	G - 7 (B) F - 7 (B)	Q230	K - 9 (B) L - 10 (B)	RV66 RV67	B - 9 B - 9		





EF-20 -A SIDE-1-631-544-11 (1) BVS-3200/3200C----EF-20 BVS-3200P/3200CP---EF-20P

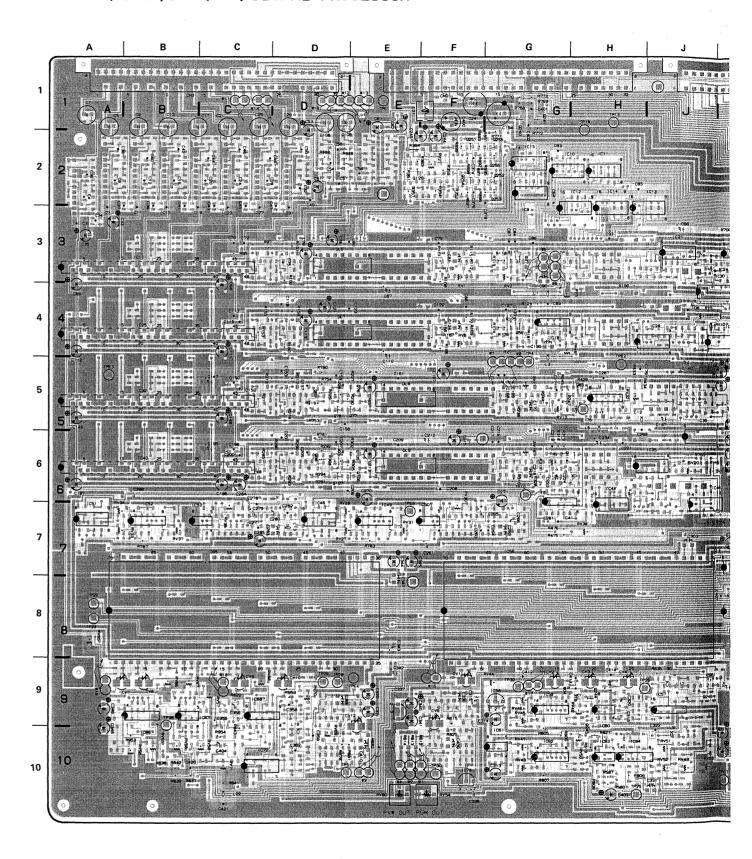


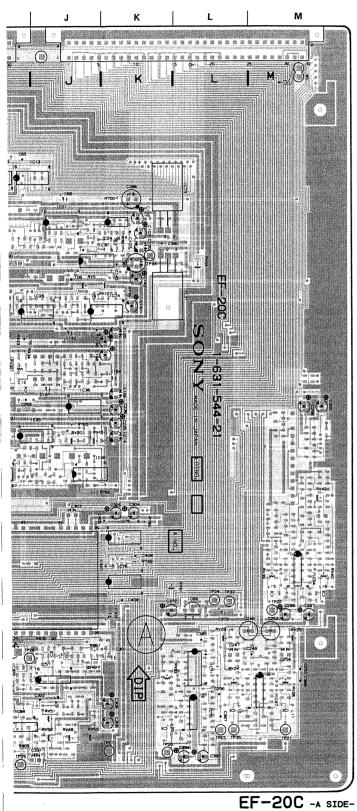
EF-20 -B SIDE-1-631-544-11 (1) BVS-3200/3200C---- EF-20 BVS-3200P/3200CP--- EF-20P

EF-20C/20CP; B-Y (R-Y) SIGNAL PROCESSOR

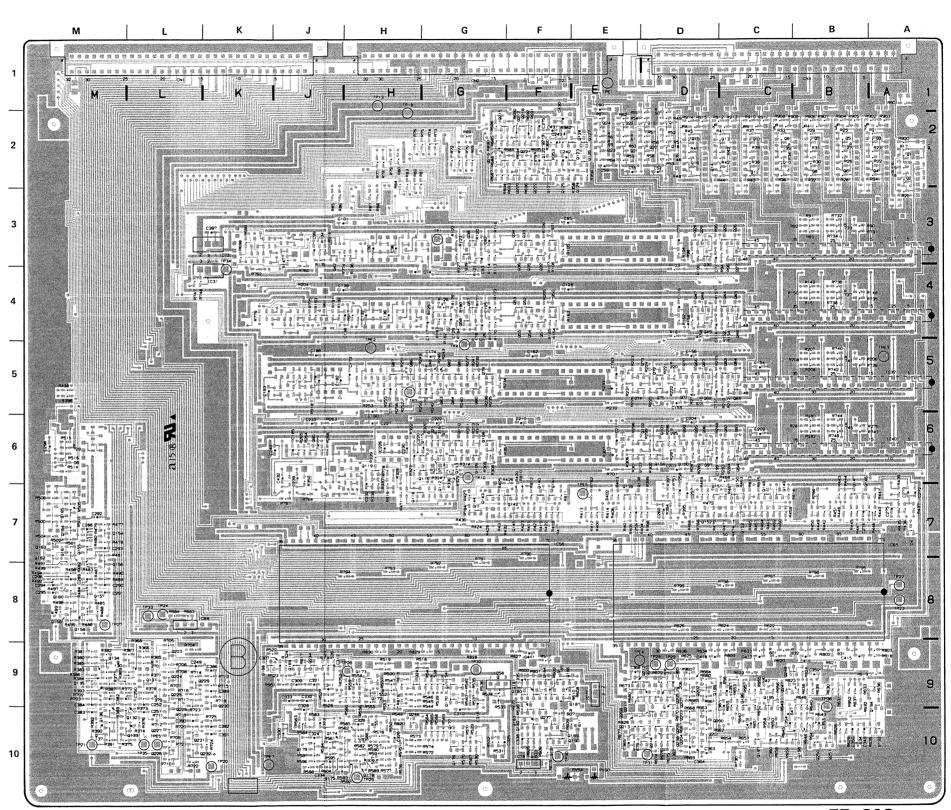
EF - 20	C/20CP (1-631	-544-21)							
CN1 CN2 CN3	L - 1 F - 1 B - 1	JR4 JR5 JR6	B - 2 (B) C - 2 (B) C - 2 (B)	Q85 Q86 Q87	H - 5 H - 5 (B) H - 5 (B)	Q177 Q178 Q179	G - 10 (B) H - 10 (B) J - 10 (B)	RV20 RV21 RV23	J - 6 F - 2 L - 9
CV1	F - 9	JR7 JR8	D - 2 (B) D - 2 (B)	Q90 Q92	C - 6 (B) C - 6 (B)	Q180 Q181	F - 9 (B) F - 9 (B)	RV24 RV25	L - 9 M - 9
CV2 CV3	G - 9 H - 9	Q1	A - 2 (B)	Q93 Q94	C - 6 (B) D - 6 (B)	Q182 Q183	F - 10 (B) F - 10 (B)	RV26 RV27	M - 9 D - 7
CV4	H - 9	Q2	A - 2 (B)	Q95	D - 6 (B)	Q184	F - 9 (B)	RV28	D - 7
CV6 CV7	F - 9 B - 9	Q3 Q4	A - 2 (B) A - 2 (B)	Q96 Q97	D - 6 (B) D - 6	Q185 Q186	F - 9 (B) F - 9 (B)	RV30 RV31	F - 7 E - 7
CV8	B - 9	Q5	B - 2 (B)	Q98	D - 6 (B)	Q187	F - 9 (B)	RV32	H - 5
CV9 CV10	C - 9 D - 9	Q6 Q7	B - 2 (B) B - 2 (B)	Q99 Q100	D - 6 (B) D - 6 (B)	Q189 Q190	F - 10 (B) F - 10 (B)	RV33 RV34	B - 7 A - 7
CV12	E - 9	Q8 Q9	B - 2 (B) C - 2 (B)	Q101 Q102	D - 6 (B) E - 6 (B)	Q191 Q193	F - 10 (B) A - 10 (B)	RV36 RV37	C - 7 B - 7
DL6 DL7	D - 3 D - 4	Q10 Q11	C - 2 (B) C - 2 (B)	Q103	E - 5 (B)	Q194	A - 9 (B) C - 9 (B)	RV38	H - 7
DL8	E - 5	Q12	C - 2 (B)	Q104 Q105	D - 6 (B) E - 6	Q195 Q196	C - 9 (B)	RV39 RV40	M - 8 M - 8
DL9	E - 6	Q13 Q14	C - 2 (B) D - 2 (B)	Q106 Q107	E - 6 D - 6	Q197 Q198	C - 10 (B) C - 10 (B)	RV42 RV43	M - 7 G - 10
D1 D2	F - 1 (B) F - 1 (B)	Q15 Q16	D - 2 (B)	Q108	G - 6 (B)	Q199	D - 9 (B)	RV44	G - 9
D4	A - 7 (B)	Q17	D - 2 (B) D - 2 (B)	Q109 Q110	G - 6 (B) G - 6 (B)	Q200 Q201	D - 10 (B) D - 10 (B)	RV45 RV46	G - 9 G - 9
D6 D7	M - 6 (B) D - 6 (B)	Q18 Q19	D - 2 (B) D - 2 (B)	Q111 Q112	G - 6 (B) G - 6 (B)	Q202 Q203	D - 9 (B) D - 10 (B)	RV47 RV48	G - 10 H - 9
D8	C - 6 (B)	Q20	D - 2 (B)	Q113	G - 6 (B)	Q204	D - 10 (B)	RV49	J - 10
IC9	G - 2	Q21 Q22	E - 2 (B) E - 2 (B)	Q114 Q115	H - 6 H - 6 (B)	Q205 Q206	D - 9 (B) D - 9 (B)	RV50 RV51	H - 10 J - 10
IC10 IC11	G - 2 H - 2	Q23 Q24	E - 2 (B) E - 2 (B)	Q116 Q119	H - 6 (B) H - 6 (B)	Q207 Q208	D - 9 (B) E - 10 (B)	RV52 RV53	J - 10 J - 10
IC12 IC13	H - 3 J - 3	Q25 Q26	C - 3 (B) C - 3 (B)	Q121 Q122	F - 2 (B)	Q209	D - 10 (B)	RV54	F - 10 B - 10
IC14	H - 3	Q27	C - 4 (B)	Q123	F - 2 (B) F - 2 (B)	Q210 Q211	D - 9 (B) E - 9 (B)	RV55 RV56	B - 10
IC15 IC17	G - 2 B - 3	Q28 Q29	D - 3 (B) D - 3 (B)	Q124 Q125	F - 2 (B) F - 2 (B)	Q212 Q213	E - 9 (B) E - 10 (B)	RV57 RV58	C - 9 B - 10
IC18 IC21	G - 4 J - 3	Q30 Q31	D - 4 (B) F - 3 (B)	Q126 Q127	E - 2 (B)	Q214 Q215	D - 10 (B) F - 2 (B)	RV59	C - 10
IC25	B - 4	Q32	F - 3 (B)	Q128	E - 2 (B) F - 2 (B)	Q216	F - 2 (B)	RV60 RV61	E - 10 K - 8
IC28 IC30	J - 4 K - 4	Q33 Q34	F - 3 (B) F - 3 (B)	Q129 Q130	E - 2 M - 9 (B)	Q217 Q218	F - 2 (B) F - 2 (B)	RV62 RV64	K - 9 L - 4
IC31 IC32	L - 4 B - 5	Q35 Q36	F - 3 (B) F - 3 (B)	Q131 Q132	L - 9 (B) M - 10 (B)	Q219 Q220	F - 2 (B) F - 2 (B)	RV65 RV66	A - 8 B - 9
IC33	H - 5	Q37	G - 3	Q133	M - 10 (B)	Q221	F - 2 (B)	RV67	B - 9
IC36 IC40	J - 6 B - 6	Q38 Q39	G - 3 (B) G - 3 (B)	Q134 Q135	M - 9 (B) M - 9 (B)	Q222 Q223	F - 2 (B) L - 9 (B)	RV68 RV69	C - 9 D - 10
IC41 IC44	G - 6 H - 6	Q42 Q44	J - 3 (B) C - 4 (B)	Q136 Q137	M - 10 (B) M - 10 (B)	Q224 Q225	L - 9 (B) L - 9 (B)	RV70 RV71	D - 9 C - 10
IC46	J - 6	Q45	C - 4 (B)	Q138	E - 6 (B)	Q226	L - 10 (B)		
IC47 IC48	M - 10 D - 7	Q46 Q47	C - 4 (B) D - 4 (B)	Q139 Q140	E - 7 (B) F - 7 (B)	Q227 Q228	L - 10 (B) L - 9 (B)	TPE1 TPE2	E - 1 H - 5
IC49 IC50	E - 7 F - 7	Q48 Q49	D - 4 (B) D - 4 (B)	Q141 Q142	F - 7 (B) G - 7 (B)	Q229 Q230	L - 9 (B) K - 9 (B)	TPE3 TPE4	A - 5 E - 9
IC51 IC52	A - 7 B - 7	Q50	F - 4 (B)	Q143	G - 7 (B)	Q231	L - 10 (B)	TPE5	L - 10
IC53	C - 7	Q51 Q52	F - 4 (B) F - 4 (B)	Q144 Q145	G - 7 (B) F - 7 (B)	Q232 Q234	L - 10 (B) J - 9 (B)	TPE6 TPE7	E - 7 K - 10
IC54 IC55	M - 8 M - 6	Q53 Q54	F - 4 (B) F - 4 (B)	Q146 Q147	B - 6 (B) B - 6 (B)	Q235 Q237	F - 10 (B) F - 10 (B)	TPI	G - 3
IC56 IC57	G - 8 J - 9	Q55 Q56	F - 4 (B) G - 4	Q148 Q149	C - 7 (B) C - 7 (B)	Q238 Q240	D - 10 (B) G - 1	TP4 TP7	G - 5 H - 5
IC58	G - 9	Q57	G - 4 (B)	Q150	C - 6 (B)	Q241	G - 1	TP10	G - 6
IC59 IC60	G - 9 H - 9	Q58 Q61	G - 4 (B) J - 4 (B)	Q151 Q152	D - 7 (B) D - 7 (B)	Q242 Q243	C - 9 (B) H - 9 (B)	TP13 TP18	H - 1 H - 1
IC61 IC62	G - 10 G - 10	Q63 Q64	C - 5 (B) C - 5 (B)	Q153 Q154	C - 7 (B) M - 7 (B)	Q244 Q245	H - 9 H - 10	TP20 TP21	K - 10 M - 10
IC63	H - 10	Q65	C - 5 (B)	Q155	M - 7 (B)	Q246	H - 10 (B)	TP22	A - 8
IC64 IC65	H - 10 C - 8	Q66 Q67	D - 5 (B) D - 5 (B)	Q156 Q157	M - 8 (B) M - 8 (B)	Q247 Q248	C - 9 (B) C - 9 (B)	TP23 TP24	A - 8 L - 8
IC66 IC67	B - 9 B - 9	Q68 Q69	D - 5 (B) D - 5	Q158 Q159	M - 8 (B) M - 8 (B)	Q249 Q250	J - 9 B - 10 (B)	TP25 TP26	H - 10 J - 9
IC68 IC69	C - 9	Q70	D - 5 (B)	Q160	M - 8 (B)	Q251	B - 10 (B)	TP27	M - 8
IC70	L - 8 L - 10	Q71 Q72	D - 5 (B) D - 5 (B)	Q161 Q162	M - 7 (B) M - 7 (B)	RV1	F - 3	TP28 TP29	D - 9 D - 9
IC71 IC72	L - 9 C - 10	Q73 Q74	E - 5 (B) E - 5 (B)	Q163 Q164	M - 7 (B) M - 7 (B)	RV2 RV3	G - 3 G - 4	TP30 TP31	F - 10 D - 10
IC73 IC74	L - 3 K - 4	Q75 Q76	D - 5 (B) E - 5	Q165 Q168	M - 7 (B) K - 9 (B)	RV5 RV6	J - 4 F - 5	TP32 TP33	G - 9
IC75	K - 7	Q77	E - 5	Q169	J - 9 (B)	RV7	G - 4	TP34	L - 8 K - 4
IC76 IC77	K - 8 E - 9	Q78 Q79	D - 5 G - 5 (B)	Q170 Q171	G - 9 (B) G - 9 (B)	RV8 RV10	G - 4 K - 3	TP35 TP36	L - 10 B - 9
IC78	F - 10	Q80 Q81	G - 5 (B) G - 5 (B)	Q172 Q173	H - 9 (B) H - 9 (B)	RV11 RV12	G - 5 G - 5		-
JR1	A - 2 (B)	Q82	G - 5 (B)	Q174	J - 10 (B)	RV15	J - 6		
JR2	B - 2 (B)	Q83	G - 5 (B)	Q175	J - 10 (B)	RV16	G - 6		







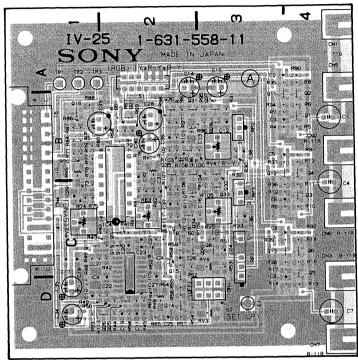
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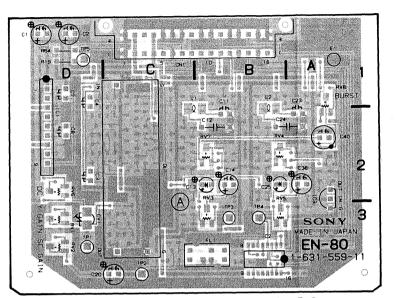
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EN-80/80P; ENCODER

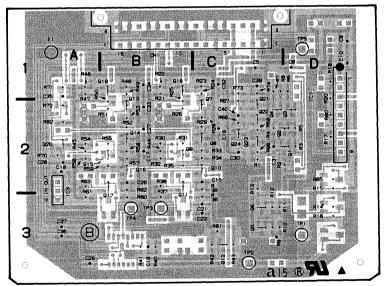
IV-25/25P; MODE SET FOR INPUT VIDEO SIGNAL



IV-25 -A SIDE-1-631-558-11 (1) 8VS-3200C---IV-25 BVS-3200CP---IV-25P

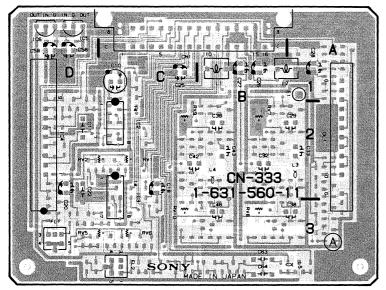


EN-80 -A SIDE-1-631-559-11 (1) BVS-3200C----EN-80 BVS-3200CP---EN-80P

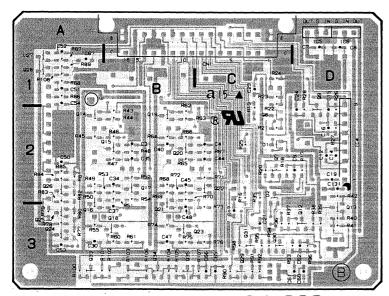


EN-80 -B SIDE-1-631-559-11 (1) BVS-3200C---EN-80 BVS-3200CP---EN-80P

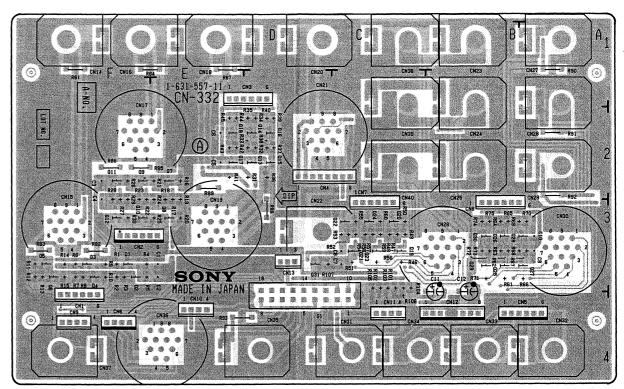
CN-332; CONNECTOR BOARD CN-333/333P; SYNC SEPARATOR LE-55; LED



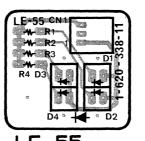
CN-333 -A SIDE-1-631-560-11 (1) BVS-3200C----- CN-333 BVS-3200CP---- CN-333P



CN-333 -B SIDE-1-631-560-11 (1) BVS-3200C---- CN-333 BVS-3200CP---- CN-333P

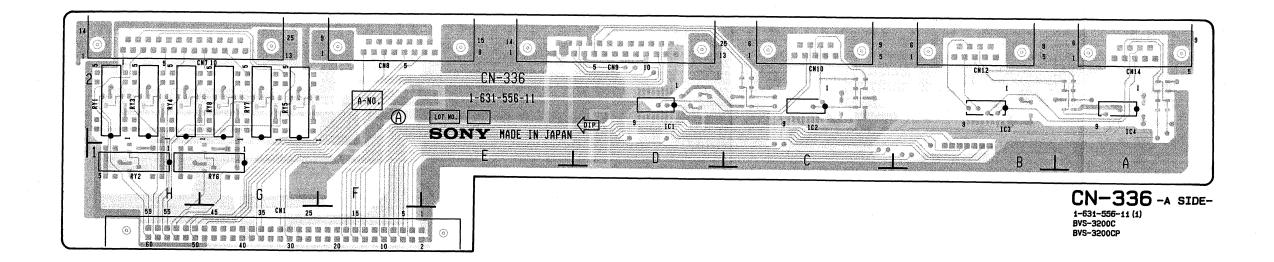


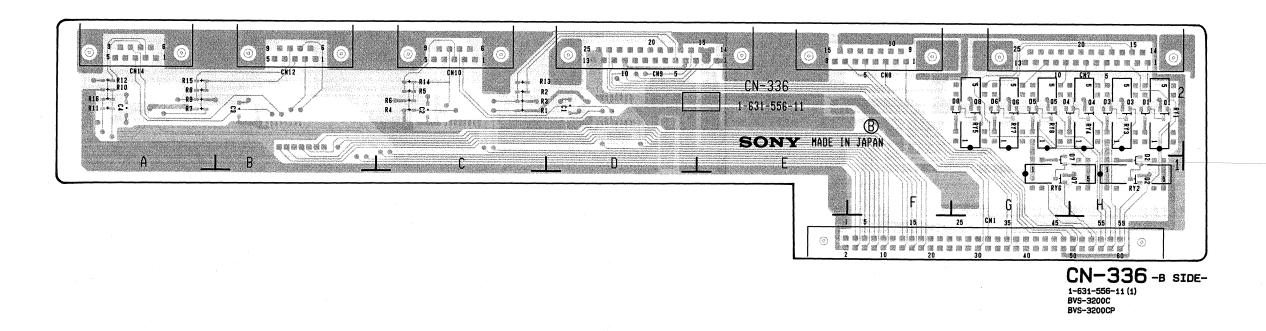
CN-332 -A SIDE-1-631-557-11 (1) 8VS-3200C BVS-3200CP



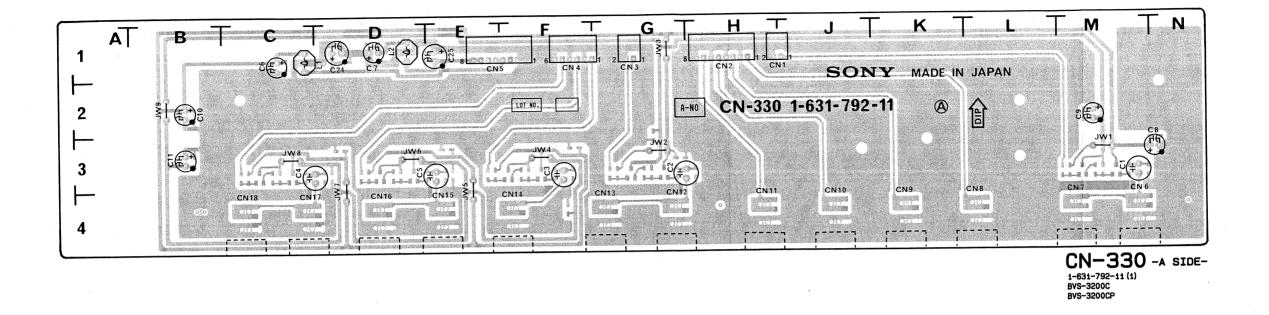
LE-55
-COMPONENT SIDE1-620-338-11(1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

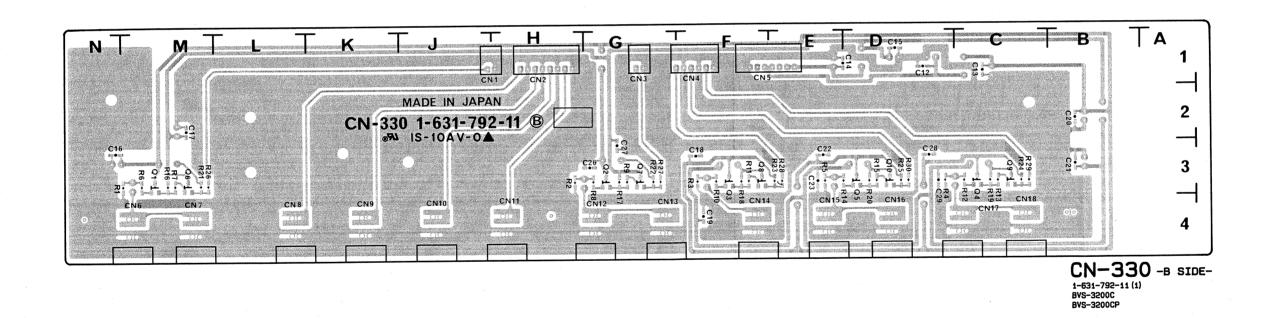
CN-336; CONNECTOR BOARD



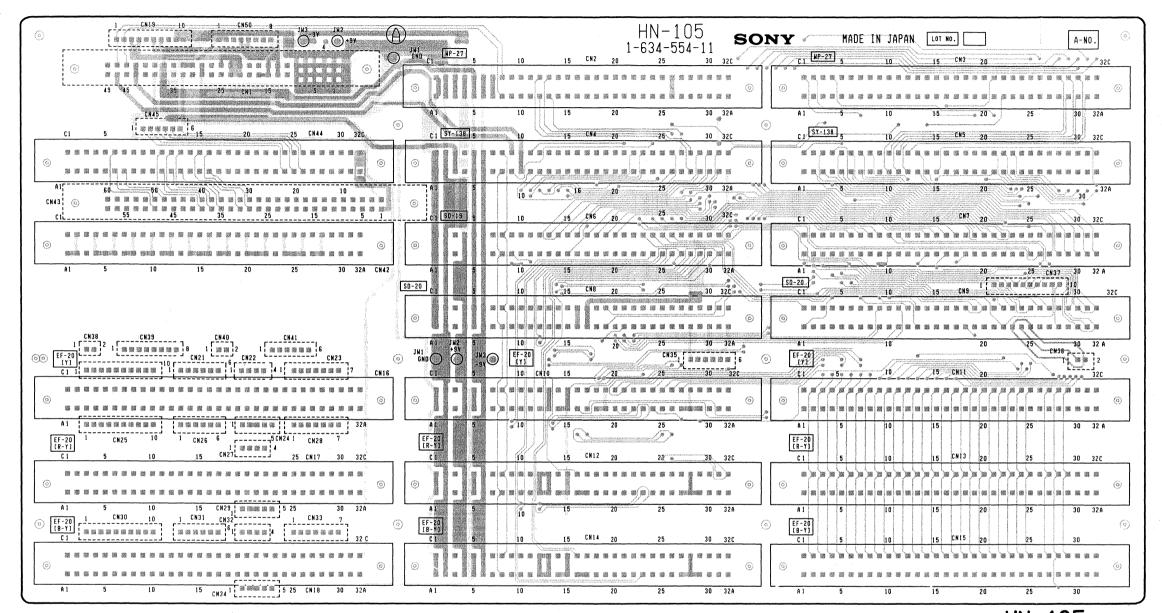


CN-330; CONNECTOR BOARD



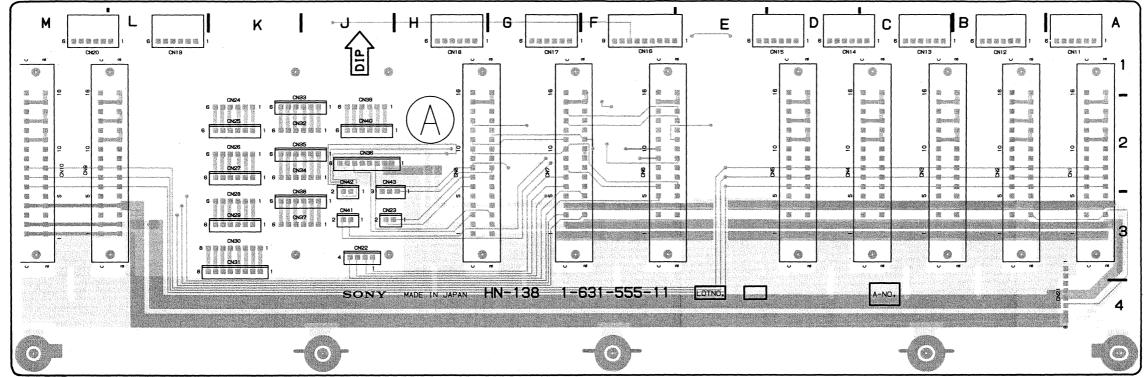


HN-105; MOTHER BOARD

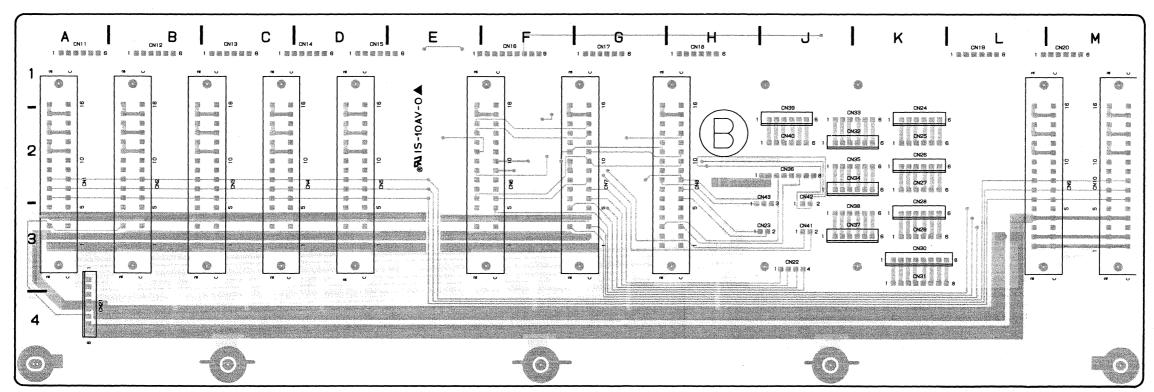


HN-105 -A SIDE-1-634-554-11 (1) BVS-3200C BVS-3200CP

HN-138; MOTHER BOARD



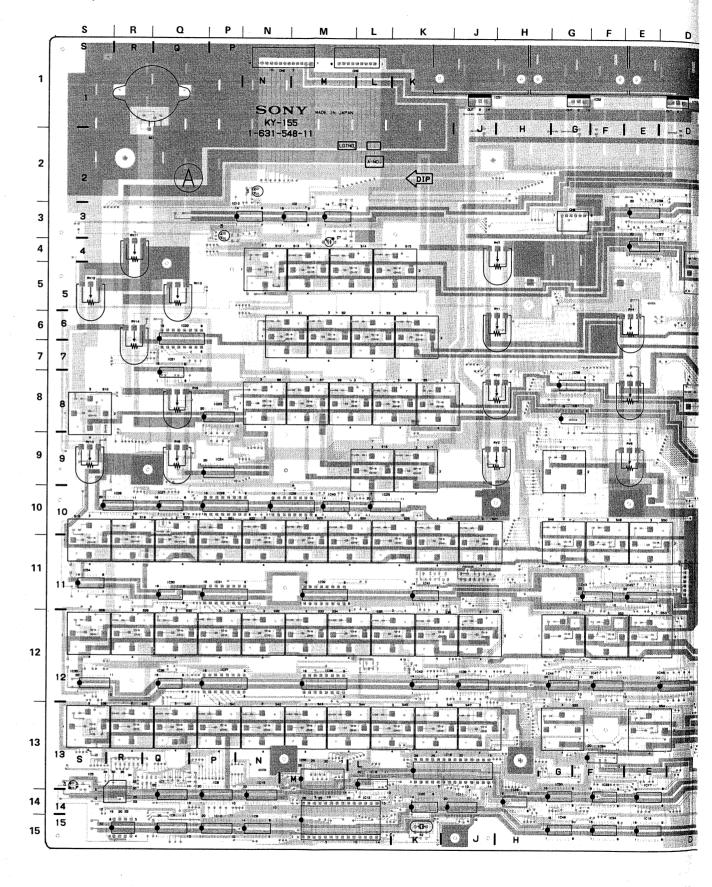
HN-138 -A SIDE-1-631-555-11(1) BVS-3200C BVS-3200CP

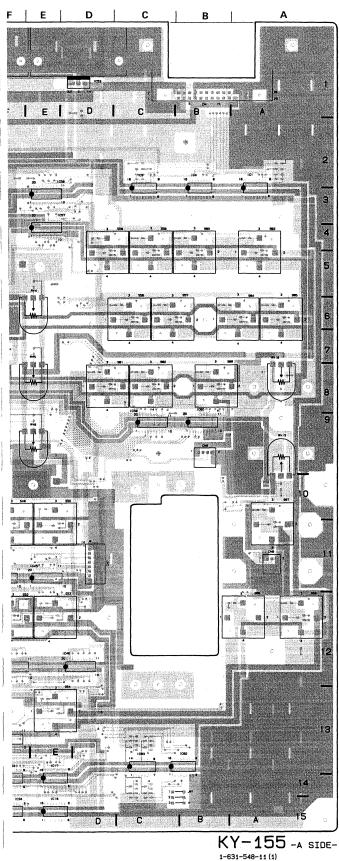


HN-138 -B SIDE-1-631-555-11 (1) BVS-3200C BVS-3200CP

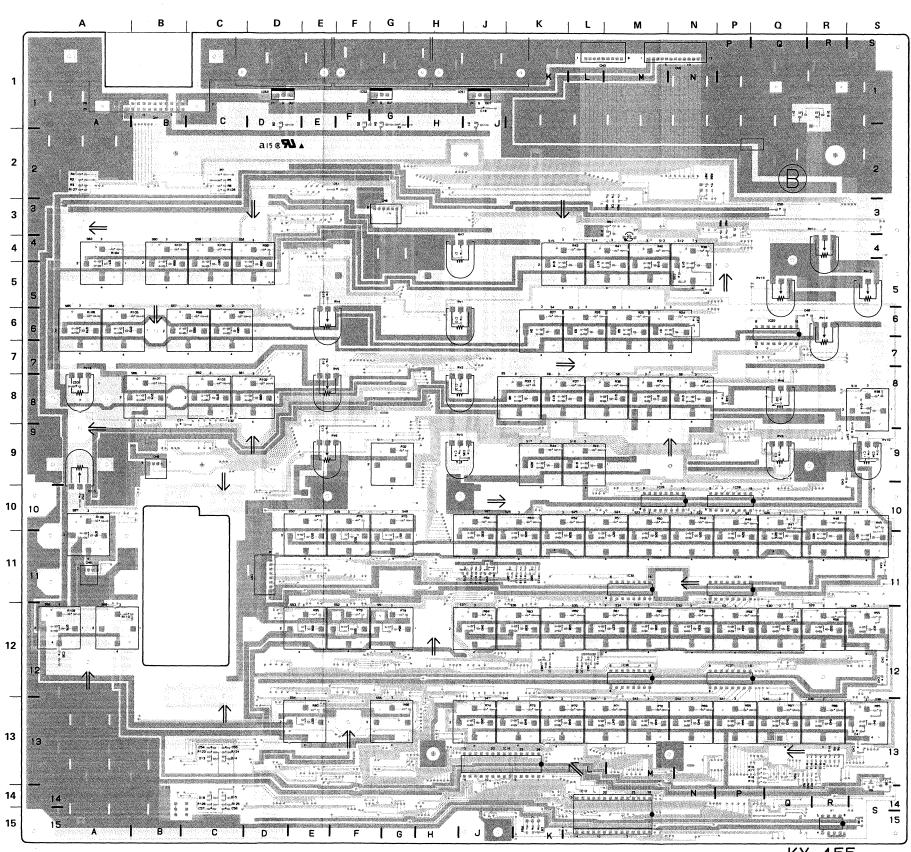
KY-155; SWITCH BOARD

	55/155P (1-631-	-	0 12	D) (a	
CN1 CN2 CN3 CN6 CN7 CN8 CN9	R - 2 B - 1 N - 1 M - 1 B - 9 D - 11 G - 3 A - 11	IC62 IC63 IC64 Q1 Q2 Q3 Q4 Q9	B - 13 D - 13 F - 13 M - 6 (B) M - 6 (B) L - 6 (B) K - 6 (B) K - 8 (B)	RV8 RV9 RV10 RV11 RV12 RV13 RV14 RV15 RV16	Q - 8 Q - 9 S - 9 R - 3 S - 5 Q - 5 R - 6 A - 9 A - 8
D1 D4 D5 D6 D9 D10 D11 D12 D13 D14 D15	J - 1 (B) G - 1 (B) F - 1 (B) D - 1 (B) S - 14 (B) R - 1 (B) Q - 1 (B) M - 3 (B) C - 13 (B) C - 14 (B) C - 14 (B)	Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23	N - 8 (B) M - 8 (B) M - 8 (B) K - 8 (B) K - 8 (B) N - 5 (B) M - 5 (B) L - 5 (B) L - 5 (B) L - 9 (B) S - 11 (B) R - 11 (B) G - 11 (B)	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13	M - 6 L - 6 K - 6 K - 8 M - 8 M - 8 G - 9 N - 4
IC1 IC2 IC3 IC4 IC5 IC6 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13 IC14 IC15 IC16 IC17 IC18 IC20 IC21 IC22 IC23 IC24 IC25 IC26 IC27 IC28 IC29 IC30 IC31 IC32 IC34 IC35 IC36 IC37 IC38 IC40 IC41 IC42 IC43 IC45 IC56 IC57 IC58 IC57 IC58 IC57 IC58 IC560 IC61 IC61	A - 2 M - 3 C - 2 S - 13 C - 2 S - 13 N - 15 P - 13 P - 15 P - 15 N - 13 P - 15 N - 13 N - 10 P - 10 P - 10 P - 10 P - 11 M - 11 M - 11 M - 12 M - 12 M - 12 M - 13 M - 13 F - 1 (B) M - 13 M	Q24 Q25 Q26 Q27 Q28 Q39 Q31 Q33 Q33 Q34 Q35 Q36 Q37 Q38 Q39 Q41 Q42 Q43 Q44 Q45 Q47 Q48 Q49 Q51 Q52 Q53 Q53 Q54 Q55 Q57 Q66 Q67 Q66 Q67 Q67 Q68 Q79 Q79 Q79 Q79 Q79 Q79 Q79 Q79 Q79 Q79	Q - 11 (B) P - 11 (B) M - 11 (B) M - 11 (B) M - 11 (B) K - 11 (B) K - 12 (B) S - 12 (B) F - 12 (B) M - 13 (B) K - 13 (B) F - 13 (B) F - 13 (B) F - 13 (B) F - 13 (B) C - 5 (B) M - 13 (B) C - 5 (B) D - 5 (B) D - 5 (B) D - 5 (B) D - 8 (B) D - 11 (B) C - 6 (B) D - 11 (B) D - 12 (B) D - 12 (B) D - 12 (B) D - 13 (B) M - 13 (B) K - 11 (B) K - 12 (B) M - 5 (B) M - 5 (B) M - 5 (B) M - 5 (B) M - 9 E - 5 E - 9 H - 4	\$13 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20 \$21 \$22 \$23 \$23 \$24 \$25 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$55 \$46 \$57 \$58 \$59 \$50 \$51 \$52 \$53 \$53 \$54 \$55 \$56 \$57 \$58 \$59 \$56 \$57 \$58 \$59 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$56 \$57 \$58 \$58 \$58 \$58 \$58 \$58 \$58 \$58 \$58 \$58	M - 4 - 4 - 4 - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
-	(B); *-* B SI				



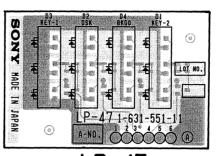


1-631-548-11 (1) BVS-3200/3200C BVS-3200P/3200CP

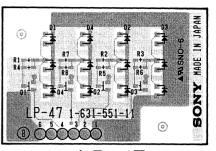


KY-155 -B SIDE-1-631-548-11(1) BVS-3200/3200C BVS-3200P/3200CP

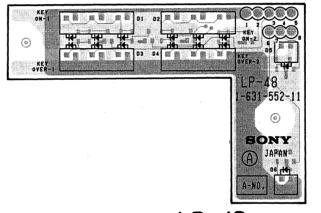
LP-47; LED LP-48; LED LP-49; LED



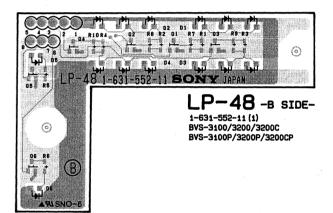
LP-47 -A SIDE-1-631-551-11(1) BVS-3100/3200/3200C BVS-3100P/3200P/3200CP



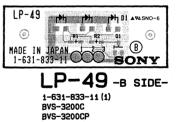
LP-47 -B SIDE-1-631-551-11(1) BVS-3100/3200/3200C BVS-3100P/3200P/3200CP



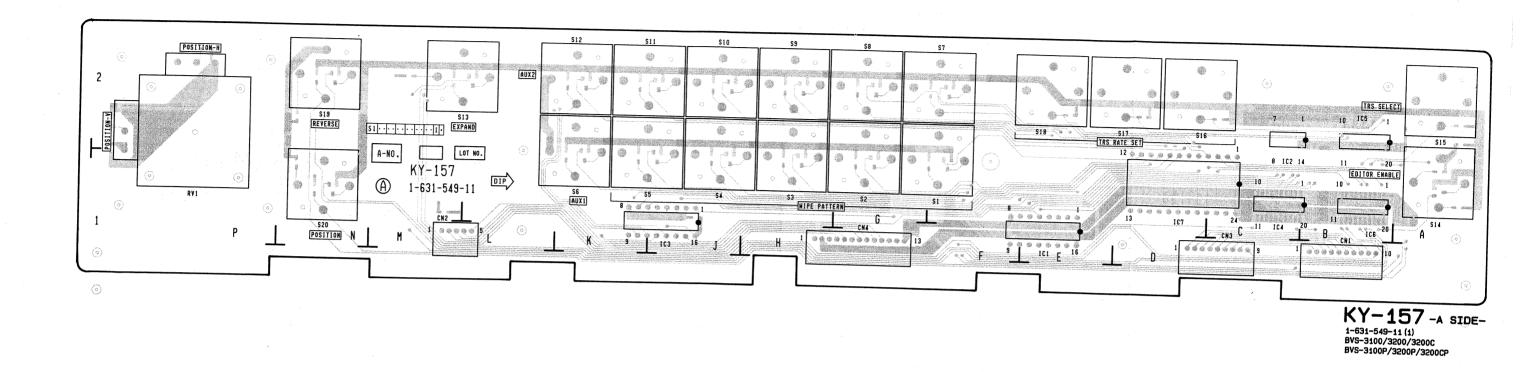
LP-48 -A SIDE-1-631-552-11(1) 8VS-3100/3200/3200C BVS-3100P/3200P/3200CP

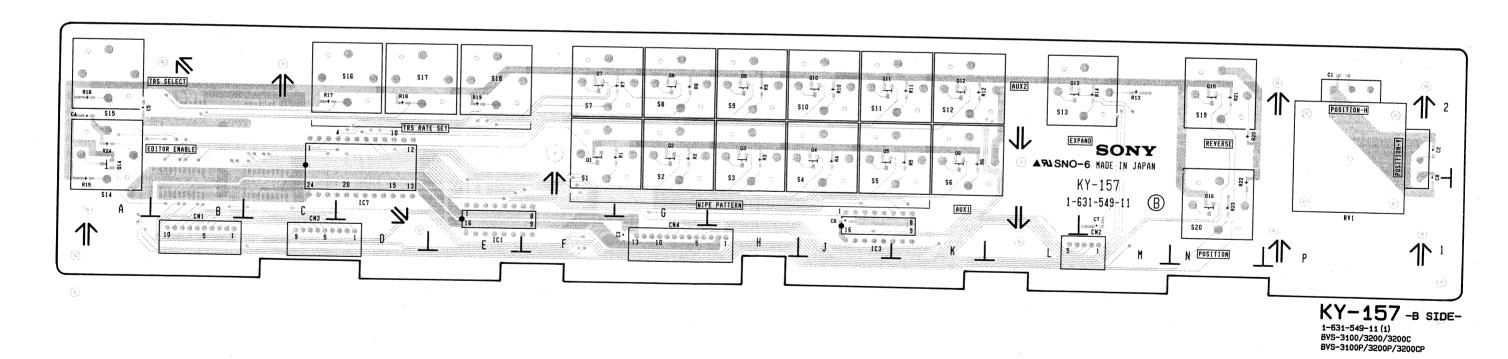




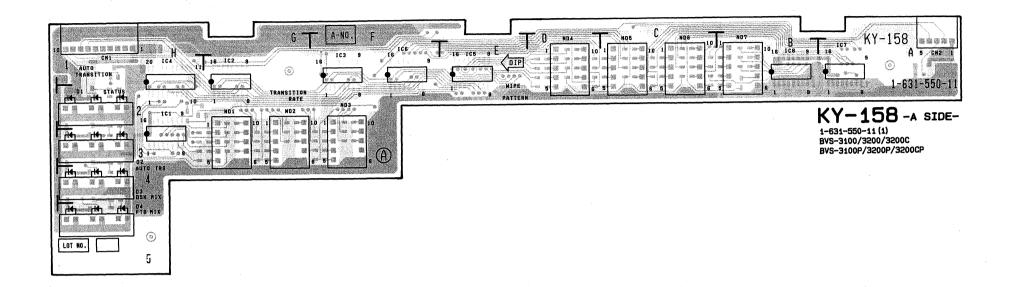


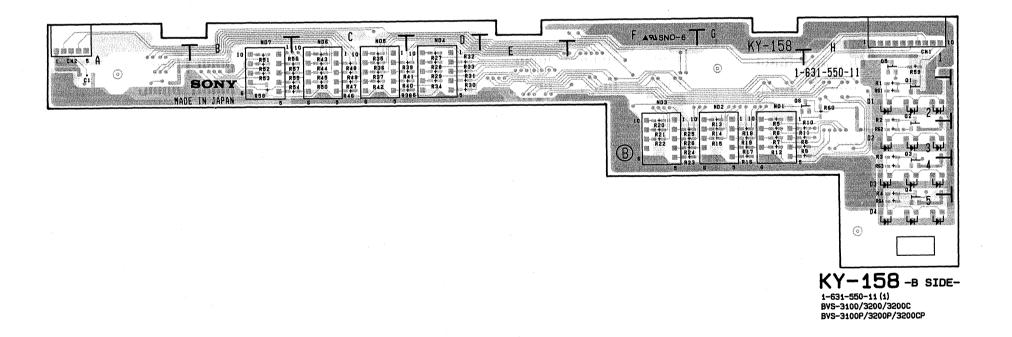
KY-157; SUB SWITCH BOARD



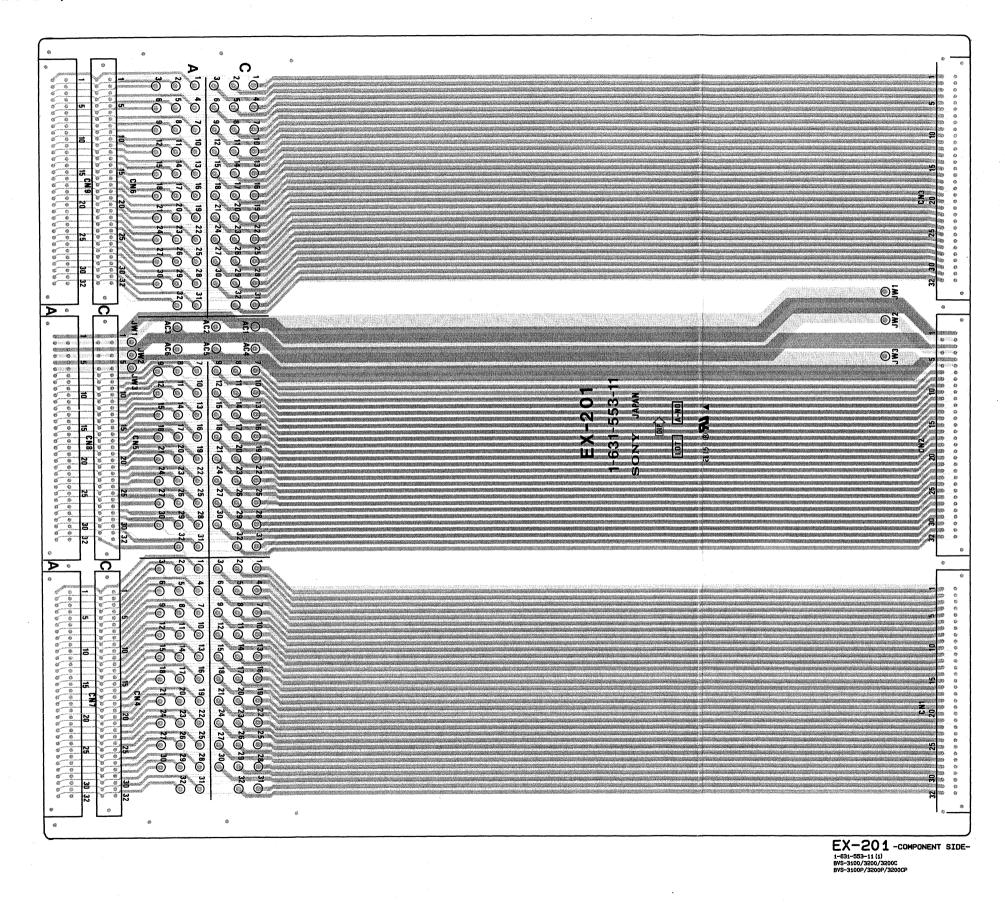


KY-158; SUB SWITCH BOARD



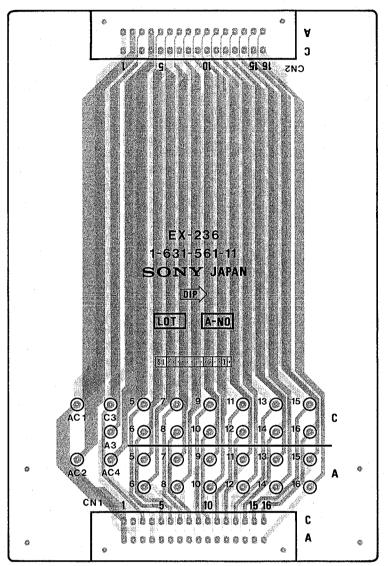


EX-201; EXTENTION BOARD



8-113

EX-236; EXTENTION BOARD



EX-236 -COMPONENT SIDE-1-631-561-11 (1) BVS-3200C BVS-3200CP

SECTION 9 SPARE PARTS AND FIXTURE

9-1. PARTS INFORMATION

(1) The shaded and ▲ -marked components are critical to safety.
Replace only with the same components as specified.

- (2) Replacement parts supplied from the Sony Parts Center will sometimes have a different shape and outside view from the parts which are used in the unit. This is due to "accommodating improved parts and/or engineering changes" or "standardization of genuine parts".
 - This manual's exploded views and electrical spare parts lists indicate the part numbers of "the present standardized genuine parts".
 - Regarding engineering part changes by our engineering department, refer to Sony service bulletins and service manual supplements.
- (3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.
- (4) Item with no part number and/or no description are not stocked because they are seldom required for routine service.
- (5) (T) after a spring description is shown on the exploded views in order to indicate the number of a spring turn required for the use. (Example)

Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

9-2. EXPLODED VIEW

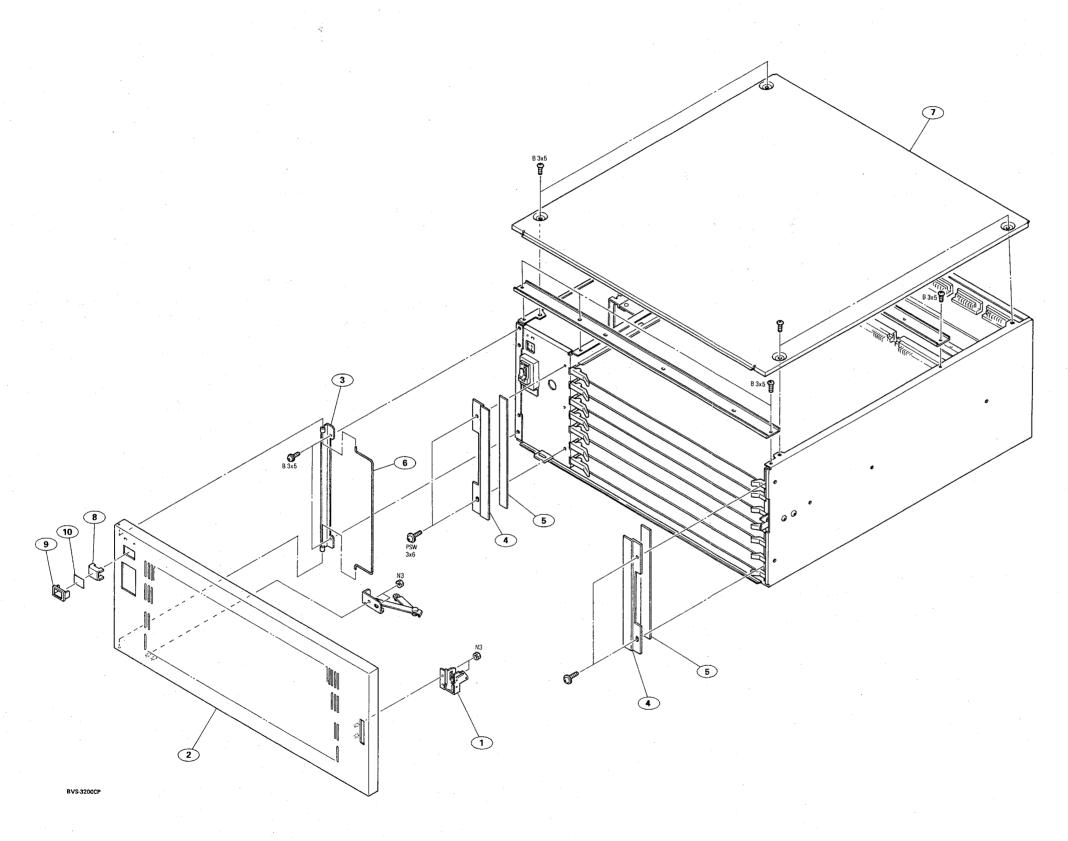
. Exploded views are composed of the following blocks

PROCESS UNIT

- (1) Front Panel
- (2) Chassis
- (3) Rear Panel

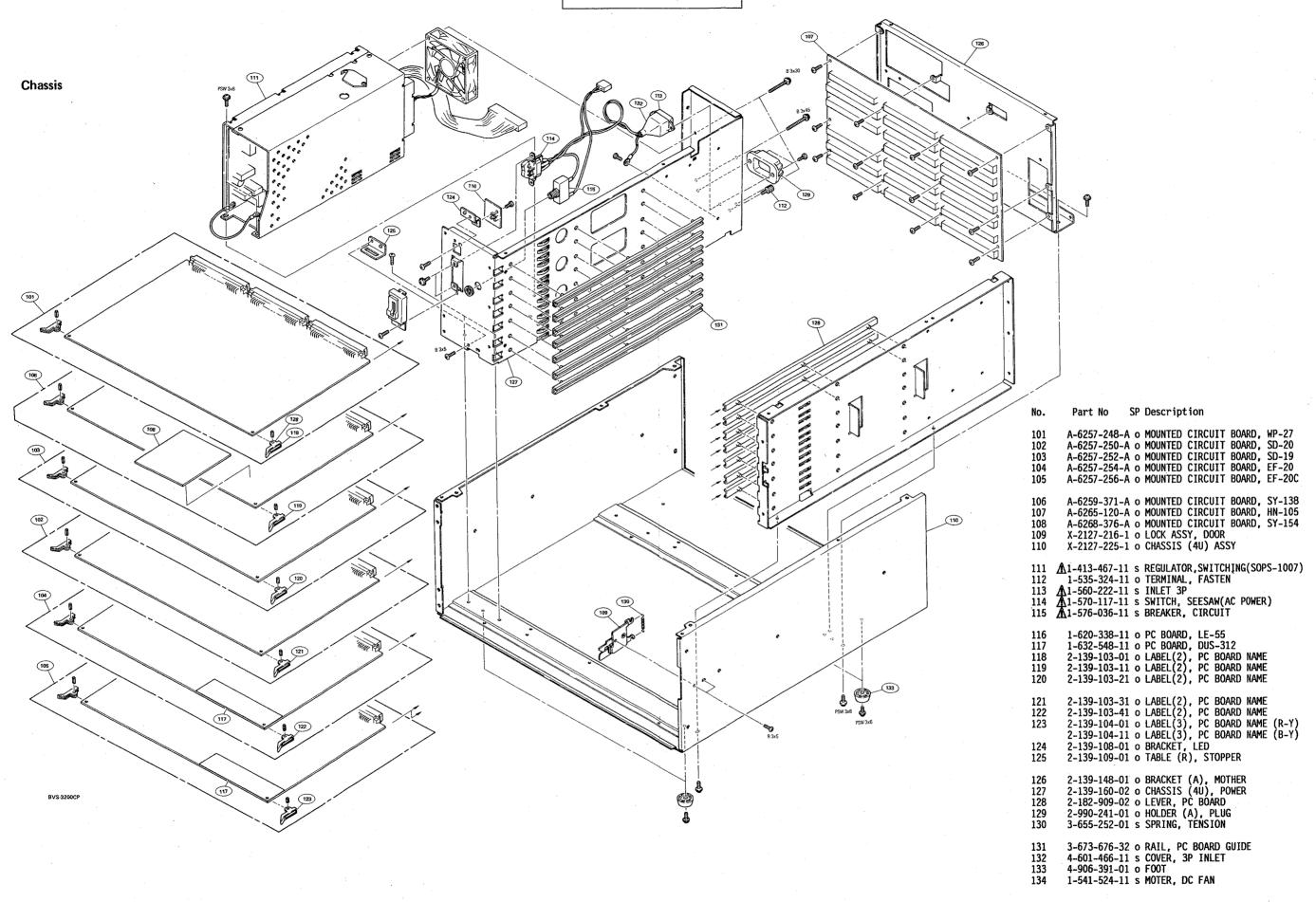
CONSOLE UNIT

- (1) Console Unit
- (2) Key Switch

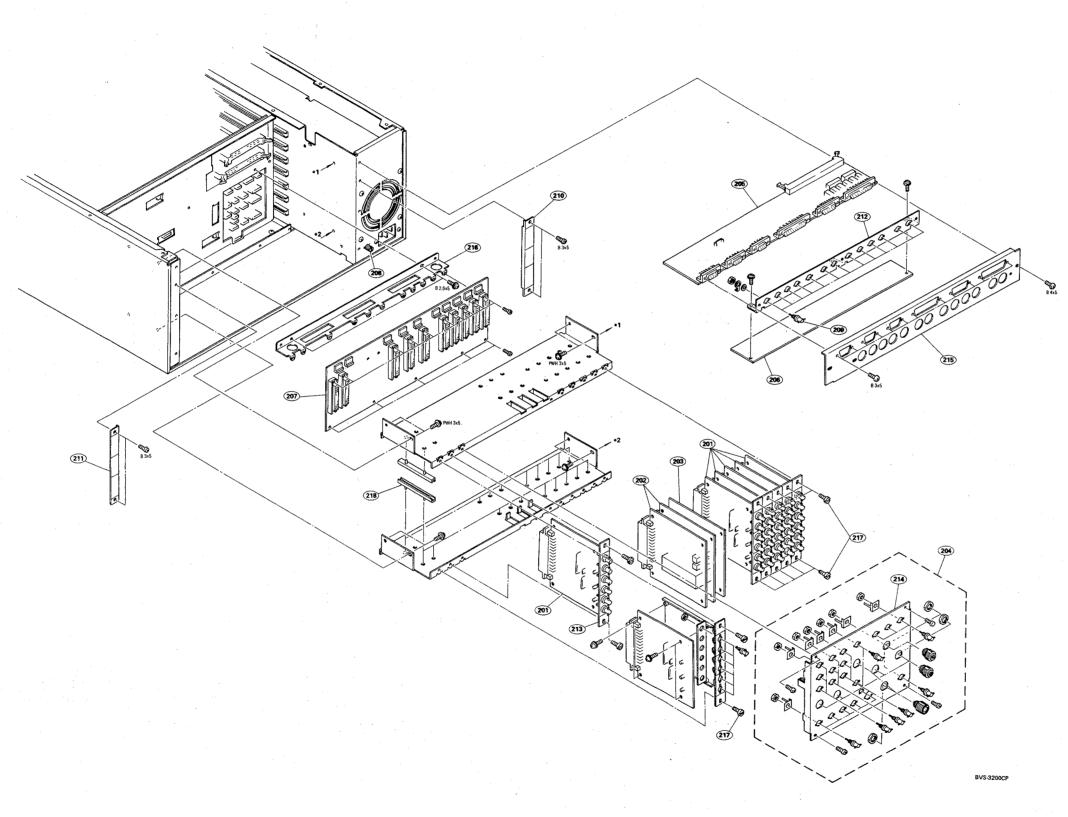


No. Part No SP Description

1 A-6279-484-A o HANDLE ASSY, DOOR
2 X-2127-233-1 o PLATE ASSY, FRONT
3 2-139-101-01 o SHAFT (4U), HINGE
4 2-139-110-01 o RETAINER, PC BOARD
5 2-139-111-01 o CUSHION, PC BOARD
6 2-139-127-01 o HINGE(4U)
7 2-139-153-01 o PLATE (D450), TOP
8 2-249-303-01 o WINDOW(2), REMOTE CONTROL
9 2-249-304-02 o FRAME(2), MINDOW, REMOTE CONTROL
10 2-249-353-01 o COVER, LAMP

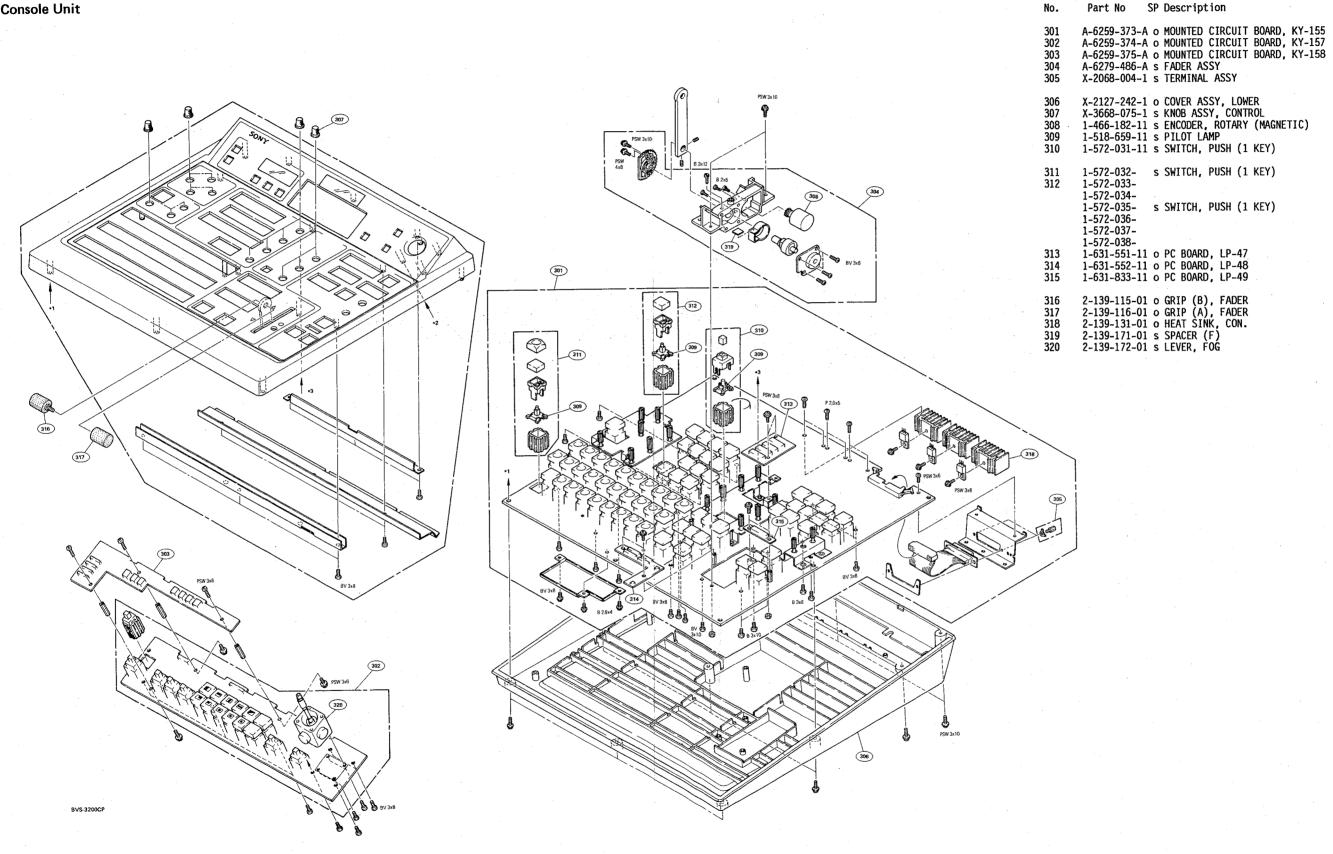


Rear Panel



No.	Part No SP Description
201	A-6257-258-A o MOUNTED CIRCUIT BOARD, IV-25
202	A-6257-260-A o MOUNTED CIRCUIT BOARD, EN-80
203	A-6257-262-A o MOUNTED CIRCUIT BOARD, CN-333
204	A-6257-263-A s MOUNTED CIRCUIT BOARD, CN-332
205	A-6257-264-A o MOUNTED CIRCUIT BOARD, CN-336
206	A-6257-265-A o MOUNTED CIRCUIT BOARD, CN-330
207	A-6265-121-A o MOUNTED CIRCUIT BOARD, HN-138
208	X-2068-004-1 s TERMINAL ASSY
209	1-563-354-12 s CONNECTOR, BNC
210	2-139-112-01 o PANEL (C), REAR
	TIL OI O ITALE (O), REAL
211	2-139-113-01 o PANEL (D), REAR
212	2-139-125-01 o BRACKET (C), BNC
213	2-139-126-01 o PANEL, REAR, IV
214	2-139-128-01 o PANEL, (B), REAR
215	2-139-138-01 o PANEL (A), REAR
	- 100 01 0 France (N), NEAR
216	2-139-149-01 o BRACKET (B), MOTHER
217	3-653-564-02 s SCREW, COIN
218	3-673-676-01 o RAIL, GUIDE, CHASSIS

Console Unit



KEY SWITCH

WHITE

	KEY SWITCH			KEY TOP		
	SP	Parts No.	SP	Parts No.		
	s	1-572-032-11	ន	3-707-668-01		
BLACK	S	1-572-032-21	s	3-707-668-11		
COLOR BKGD	s	1-572-032-31	s	3-707-668-21		

YELLOW

· LLLO · ·						
	KEY SWITCH			KEY TOP		
	SP	Parts No.	SP	Parts No.		
	s	1-572-032-41	S	3-707-668-31		
BLACK	s	1-572-032-51	s	3-707-668-41		
COLOR BKGD	s	1-572-032-61	S	3-707-668-51		

ORANGE

	KEY SWITCH			KEY TOP		
	SP	Parts No.	SP	Parts No.		
	S	1-572-032-71	S	3-707-668-61		
BLACK	co	1-572-032-81	S	3-707-668-71		
COLOR BKGD	s	1-572-032-91	S	3-707-668-81		

· .	I	KEY SWITCH	KEY TOP			
	SP	Parts No.	SP			
EXT VIDEO	s	1-572-033-11	s	3-707-669-01		
DSK MATTE	S	1-572-033-21	s	3-707-669-11		
BORDER LINE	s	1-572-033-31	s	3-707-669-21		
DROP SHADOW	s	1-572-033-41	s	3-707-669-31		
OUT LINE	s	1-572-033-51	s	3-707-669-41		
DSK EXT	S	1-572-033-61	s	3-707-669-51		
KEY BUS	s	1-572-033-71	s	3-707-669-61		
LINE 411	s	1-572-033-81	s	3-707-669-71		
MASK	s	1-572-033-91	s	3-707-669-81		
KEY INVERT	s	1-572-034-11	s	3-707-669-91		
DSK PVW	S	1-572-034-21	s	3-707-670-01		
ASPECT ON	s	1-572-034-31	s	3-707-670-11		
AUX 1	s	1-572-034-41	s	3-707-670-21		

	KEY SWITCH KEY TOP					
	SP	Parts No.	SP	Parts No.		
AUX 2	S	1-572-034-51	s	3-707-670-31		
DSK CUT	s	1-572-034-61	s	3-707-670-41		
DSK MIX	S	1-572-034-71	s	3-707-670-51		
1	s	1-572-034-81	s	3-707-670-61		
3	s	1-572-034-91	s	3-707-670-71		
17	s	1-572-035-11	s	3-707-670-81		
18	s	1-572-035-21	s	3-707-670-91		
9	s	1-572-035-31	s	3-707-671-01		
6	s	1-572-035-41	s	3-707-671-11		
5	s	1-572-035-51	s	3-707-671-21		
21	s	1-572-035-61	s	3-707-671-31		
24	s	1-572-035-71	s	3-707-671-41		
23	s	1-572-035-81	s	3-707-671-51		

	KEY SWITCH			KEY TOP		
	SP	Parts No.	SP	Parts No.		
BKGD	S	1-572-035-91	s	3-707-671-61		
KEY 1	s	1-572-036-11	S	3-707-671-71		
KEY 2	s	1-572-036-21	S	3-707-671-81		
KEY BUS	s	1-572-036-31	co	3-707-671-91		
LIASK	s	1-572-036-41	s	3-707-672-01		
KEY INVERT	s	1-572-036-51	S	3-707-672-11		
EXT VIDEO 1	s	1-572-036-61	s	3-707-672-21		
EXT VIDEO 2	s	1-572-036-71	s	3-707-672-31		
EFF MATTE	s	1-572-036-81	s	3-707-672-41		
PST PTN	s	1-572-036-91	s	3-707-672-51		
EFF EXT 1	s	1-572-037-11	s	3-707-672-61		
EFF EXT 2	s	1-572-037-21	s	3-707-672-71		
CHROMA KEY	s	1-572-037-31	s	3-707-672-81		

	KEY SWITCH			KEY TOP		
	SP Parts No.			Parts No.		
EXT MASK	s	1-572-037-41	S	3-707-672-91		
MIX	s	1-572-037-51	s	3-707-673-01		
WIPE	s	1-572-037-61	S	3-707-673-11		
KEY OVER	s	1-572-037-71	s	3-707-673-21		
KEY 1 SELECT	ន	1-572-037-81	ន	3-707-673-31		
KEY 2 SELECT	s	1-572-037-91	s	3-707-673-41		
EVE EFF	s	1-572-038-11	s	3-707-673-51		
сит	s	1-572-038-21	s	3-707-673-61		
AUTO TRANS	s	1-572-038-31	s	3-707-673-71		
FADE TO BLACK	s	1-572-038-41	S	3-707-673-81		
KEY	s	1-572-080-11	S	3-707-729-01		
DME	s	1-572-081-11	S	3-707-730-01		

9-3. ELECTRICAL PARTS LIST

ABBREVIATIONS

Ref. No.	Description	Ref. No.	Description	Ref. No.	Description
COO, CTOO	CAPACITOR	ICOO	IC	Q DD	TRANSISTOR
CFOO	CERAMIC FILTER	J 00	JACK	R00, RV00	RESISTOR
CN	CONNECTOR	L 00	INDUCTOR	RYOD	RELAY
D DD	DIODE	MOO	MOTOR	S00, SW00	SWITCH
DLOO	DELAY LINE	MEOO	METER	SBOO	SOLAR BATTERY
F 00	FUSE	MICOD	MICROPHONE	T 00	TRANSFORMER
FB□□	FERRITE BEAD	PG□□	PG COIL	THOO	THERMISTOR
FLOO	FILTER	PLOO	LAMP	XOO	CRYSTAL
ноо	HEAD	PM _□	SOLENOIDE		

All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

General Purpose Electrical Parts List

Parts that are not listed in the "reference numbers order list" are shown in following list. Reference numbers are omitted.

CAPACITOR, CHIP CERAMIC

Part No. SP Description

Part	NO.	:	١	Desci	יוסנונ	on			
1-163	3-083-	-00	s	CAP,	CHIP	CERAMIC	1pF	+-0.25pF	50V
1-163	3-085-	-00	s	CAP.	CHIP	CERAMIC	2pF	+-0.25pF	50V
	3-087-		S	CAP.	CHIP	CERAMIC	4pF	+-0.25pF	50V
	3-089-		S	CAP.	CHIP	CERAMIC	6pF	+-0.5pf	50V
	3-091-		s	CAP.	CHIP	CERAMIC	8pF	+-0.5pF	
			-				- 4	•	
1-163	3-093-	-00	s	CAP,	CHIP	CERAMIC	10pF		50V
1-163	3-097-	-00	s	CAP.	CHIP	CERAMIC	15pF	5%	50V
1-163	3-101-	-00	s	CAP,	CHIP	CERAMIC	22pF	5%	50V
	3-105-		s	CAP.	CHIP	CERAMIC	33pF	5%	50V
	3-109		S	CAP.	CHIP	CERAMIC	47pF	5%	50V
			-	•••••			•		
1-16	3-113-	-00	s	CAP,	CHIP	CERAMIC	68pF	5%	50V
	3-117·			CAP.	CHIP	CERAMIC	100pF		50V
	3-121		s		CHIP	CERAMIC	150pF		50V
	3-125		S	CAP.	CHIP	CERAMIC	220pF		50V
	3-129.		s	CAP,	CHIP	CERAMIC	330pF		50V
1-10	J-12J		3	o, ,	0.11	02.00.20	ootp.	•	
1-16	3-133	-00	s	CAP.	CHIP	CERAMIC	470pF	5%	50V
	3-137		S	CAP,	CHIP	CERAMIC	680pF	5%	50V
	3-141-		S	CAP.	CHIP	CERAMIC	1000p		50V
	3-145		s	CAP.	CHIP	CERAMIC	1500p		50V
	3-013		s	CAP.	CHIP	CERAMIC	2200p		50V
			-	••			•		
1-16	3-015	-00	s	CAP,	CHIP	CERAMIC	3300p		50V
1-16	3-017	-00	S	CAP,	CHIP	CERAMIC	4700p	F 10%	50V
1-16	3-019	-00	S	CAP,	CHIP	CERAMIC	6800p	F 10%	50V
1-16	3-021	-00	S	CAP.	CHIP	CERAMIC	0.01	10%	50V
1-16	3-023	-00	s	CAP,	CHIP	CERAMIC	0.015	10%	50V
				•					
1-16	3-034	-00	s	CAP.	CHIP	CERAMIC	0.033	}	50V
	3-035			CAP.	CHIP	CERAMIC	0.047	•	50V
	3-036			CAP.	CHIP	CERAMIC	0.068	}	50V
	3-038			CAP.	CHIP	CERAMIC	0.1		50V
0			-	/	2				

CAPACITOR, CHIP TANTALUM

Part No. SP Description

1-135-070-00	s	CAP,	CHIP	TANTALUM	0.1	10%	35V
1-135-071-21	S	CAP.	CHIP	TANTALUM	0.15	10%	35V
1-135-072-21	s	CAP.	CHIP	TANTALUM	0.22	10%	35V
1-135-073-00	S	CAP.	CHIP	TANTALUM	0.33	10%	35V
1-135-083-00		CAP.	CHIP	TANTALUM	0.47	10%	25V
1 100 000 00	•	,	01121		• • • • • • • • • • • • • • • • • • • •		
1-135-074-21	s	CAP.	CHIP	TANTALUM	0.47	10%	35V
1-135-087-21	s	CAP.	CHIP	TANTALUM	0.68	10%	20V
1-135-075-21	s	CAP.	CHIP	TANTALUM	0.68	10%	35V
1-135-091-21	s	CAP.	CHIP	TANTALUM	1.0	10%	16V
1-135-076-21	s	CAP.	CHIP	TANTALUM	1.0	10%	35V
1 100 0/0 11	-	J ,	•				
1-135-084-21	s	CAP.	CHIP	TANTALUM	1.5	10%	25V
1-135-077-21	s		CHIP	TANTALUM	1.5	10%	35V
1-135-088-21	s	CAP.	CHIP	TANTALUM	2.2	10%	20V
1-135-078-21	Š	CAP.	CHIP	TANTALUM	2.2	10%	35V
1-135-092-21	_	CAP.		TANTALUM	3.3	10%	16V
1-100-002-21	•	U, L ,	0		0.0		
1-135-079-21	s	CAP.	CHIP	TANTALUM	3.3	10%	35V
1-135-096-21	S		CHIP	TANTALUM	4.7	10%	10V
1-135-085-21	s	CAP.	CHIP	TANTALUM	4.7	10%	25V
1-135-100-21	s	CAP.	CHIP	TANTALUM	6.8	10%	6.3V
1-135-089-21	Š	CAP.	CHIP	TANTALUM	6.8	10%	20V
1 100 000 21	_					_,,	
1-135-093-21	s	CAP.	CHIP	TANTALUM	10	10%	16V
1-135-097-21	s		CHIP	TANTALUM	15	10%	10V
1-135-101-21	s	CAP.	CHIP	TANTALUM	22	10%	6.3V
1-135-098-21	s	CAP.	CHTP	TANTALUM	47	10%	6.3V

(RESISTOR, CHIP METAL)

Part No.	SP I	Descr	iptic	on .		
1-216-603-11 1-216-605-11 1-216-609-11 1-216-611-11 1-216-614-11	s s s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP	METAL METAL METAL METAL METAL	10 12 18 22 30	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-617-11 1-216-619-11 1-216-620-11 1-216-623-11 1-216-624-11	l s, l l s l l s l	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL	39 47 51 68 75	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-625-11 1-216-626-11 1-216-627-11 1-216-629-11 1-216-631-11	S S S	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL	82 91 100 120 150	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-633-11 1-216-634-11 1-216-635-11 1-216-636-11 1-216-637-11	l s l l s l	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL	180 200 220 240 270	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-638-11 1-216-639-11 1-216-640-11 1-216-641-11 1-216-642-11	l s l l s l	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	300 330 360 390 430	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-643-11 1-216-644-11 1-216-645-11 1-216-647-11 1-216-648-11	l s I l s I l s I	RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL	470 510 560 680 750	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-649-1: 1-216-650-1: 1-216-651-1: 1-216-652-1: 1-216-653-1:	ls I ls I ls I	RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL	820 910 1.0k 1.1k 1.2k	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-655-1: 1-216-656-1: 1-216-657-1: 1-216-658-1: 1-216-659-1:	ls I ls I ls I	RES, RES, RES, RES, RES,		METAL	1.5k 1.6k 1.8k 2k 2.2k	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-660-1: 1-216-661-1: 1-216-662-1: 1-216-663-1: 1-216-664-1:	l s l l s l l s l	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	2.4k 2.7k 3k 3.3k 3.5k	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-665-1: 1-216-666-1: 1-216-667-1: 1-216-668-1: 1-216-669-1:	ls I ls I ls I	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	3.9k 4.3k 4.7k 5.1k 5.6k	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-670-1: 1-216-671-1: 1-216-672-1: 1-216-673-1: 1-216-674-1:	ls I ls I ls I	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL	6.2k 6.8k 7.5k 8.2k 9.1k	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W
1-216-675-11 1-216-676-11 1-216-677-11 1-216-678-11 1-216-679-11	l s l l s l	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL	10k 11k 12k 13k 15k	1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W 1% 1/10W

Part	No.	SP	Desci	riptio	on			
l-216 l-216 l-216	6-680-11 5-681-11 5-682-11 5-683-11 5-684-11	l s l s l s	RES, RES, RES,	CHIP CHIP CHIP	METAL METAL METAL METAL METAL	16k 18k 20k 22k 24k	1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
l-216 l-216 l-216	5-685-11 5-686-11 5-687-11 5-688-11 5-689-11	l s l s l s	RES, RES, RES,	CHIP CHIP CHIP	METAL METAL METAL METAL METAL	27k 30k 33k 36k 39k	1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
l-216 l-216 l-216	5-690-11 5-691-11 5-692-11 5-693-11 5-694-11	l s l s l s	RES, RES, RES,	CHIP CHIP CHIP	METAL METAL METAL METAL METAL	43k 49k 51k 56k 62k	1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
l-216 l-216 l-216	5-695-11 5-696-11 5-697-11 5-698-11	l s l s l s	RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	68k 75k 82k 91k 100k	1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W

INDUCTOR, MICRO

Part No. SP Description 1-408-876-00 s INDUCTOR, MICRO 0.18 5% 1-408-877-00 s INDUCTOR, MICRO 0.22 5% 1-408-878-00 S INDUCTOR, MICRO 0.33 5% 1-408-879-21 S INDUCTOR, MICRO 0.47 5% 1-408-931-00 S INDUCTOR, MICRO 0.56 5% 1-408-880-00 s INDUCTOR, MICRO 0.68 5% 1-408-763-00 s INDUCTOR, MICRO 0.82 5% 1-408-397-00 s INDUCTOR, MICRO 1.0 5% 1-408-398-00 s INDUCTOR, MICRO 1.2 5% 1-408-399-00 s INDUCTOR, MICRO 1.5 5% 1-408-400-00 s INDUCTOR, MICRO 1.8 1-408-401-00 s INDUCTOR, MICRO 2.2 5% 1-408-402-00 s INDUCTOR, MICRO 2.7 1-408-403-00 s INDUCTOR, MICRO 3.3 1-408-404-00 s INDUCTOR, MICRO 1-408-405-00 s INDUCTOR, MICRO 4.7 1-408-406-00 s INDUCTOR, MICRO 5.6 1-408-407-00 s INDUCTOR, MICRO 6.8 1-408-408-00 s INDUCTOR, MICRO 8.2 5% 1-408-409-00 s INDUCTOR, MICRO 10 5% 1-408-410-00 s INDUCTOR, MICRO 1-408-411-00 s INDUCTOR, MICRO 15 1-408-412-00 s INDUCTOR, MICRO 18 1-408-413-00 s INDUCTOR, MICRO 22 1-408-414-00 s INDUCTOR, MICRO 27 5% 5% 5% 1-408-415-00 s INDUCTOR, MICRO 5% 1-408-416-00 s INDUCTOR, MICRO 5% 1-408-417-21 s INDUCTOR, MICRO 1-408-418-00 s INDUCTOR, MICRO 1-408-419-00 s INDUCTOR, MICRO 47 5% 5% 1-408-420-00 s INDUCTOR, MICRO 82 1-408-421-00 s INDUCTOR, MICRO 100 1-408-422-00 s INDUCTOR, MICRO 120 1-408-423-00 s INDUCTOR, MICRO 150 1-408-424-00 s INDUCTOR, MICRO 180 5% 5% 5% 5% 1-408-425-00 s INDUCTOR, MICRO 1-408-426-00 s INDUCTOR, MICRO 5% 270 5% 1-408-427-00 s INDUCTOR, MICRO 1-408-428-00 s INDUCTOR, MICRO 330 5%

1-408-429-00 s INDUCTOR, MICRO

390 5%

9-17

BVS-3200CP

EF-20 BO		(EF-20 B	OARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc	A-6257-254-A O MOUNTED CIRCUIT BOARD, EF-20 (P) 1-563-521-11 O CONNECTOR, 20P, FEMALE 2-139-140-01 O PLATE, SHIELD 2-182-909-01 O LEVER, PC BOARD 3-621-124-00 O SPACER	C176	1-107-202-00 s MICA 10PF 5% 500V
1pc		C183	1-109-539-00 s MICA 150PF 5% 100V
1pc		C187	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
2pcs		C188	1-131-353-00 s TANTALUM 10uF 10% 35V
16pcs		C189	1-131-353-00 s TANTALUM 10uF 10% 35V
1pc 2pcs 1pc 6pcs		C191 C194 C195 C196 C197	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-124-120-11 s ELECT 22OuF 20% 25V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V
C1	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C212	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C5	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C213	1-131-353-00 s TANTALUM 10uF 10% 35V
C9	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C214	1-126-157-11 s ELECT 10uF 20% 16V
C13	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C215	1-131-353-00 s TANTALUM 10uF 10% 35V
C17	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C218	1-107-211-00 s MICA 24PF 5% 500V
C21	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C223	1-107-202-00 s MICA 10PF 5% 500V
C25	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C231	1-109-539-00 s MICA 150PF 5% 100V
C29	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C234	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C33	1-131-353-00 s TANTALUM 10uF 10% 35V	C235	1-131-353-00 s TANTALUM 10uF 10% 35V
C35	1-131-353-00 s TANTALUM 10uF 10% 35V	C236	1-131-353-00 s TANTALUM 10uF 10% 35V
C51 C53 C61 C62 C66	1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-135-150-21 s TANTALUM 10uF 10wF 10% 20V	C238 C241 C244 C245	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-124-120-11 s ELECT 220uF 20% 25V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V
C67 C68 C69 C76 C78	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-107-211-00 s MICA 24PF 5% 500V	C247 C253 C254 C266 C269	1-107-211-00 s MICA 24PF 5% 500V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-107-211-00 s MICA 24PF 5% 500V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-107-019-00 s MICA 1PF 500V
C81 C90 C98 C100 C102	1-107-202-00 S MICA 107F 3% 300V 1-109-539-00 S MICA 150PF 5% 100V 1-126-157-11 S ELECT 10uF 20% 16V 1-131-353-00 S TANTALUM 10uF 10% 35V	C270 C271 C280 C283 C284	1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-107-019-00 s MICA 1PF 500V 1-131-353-00 s TANTALUM 10uF 10% 35V
C103	1-131-353-00 s TANTALUM 10uF 10% 35V	C285	1-131-353-00 s TANTALUM 10uF 10% 35V
C105		C287	1-131-353-00 s TANTALUM 10uF 10% 35V
C108		C288	1-131-353-00 s TANTALUM 10uF 10% 35V
C109		C296	1-164-232-11 s CERAMIC 0.01uF 10% 50V
C110		C297	1-107-211-00 s MICA 24PF 5% 500V
C111	1-131-353-00 s TANTALUM 10uF 10% 35V	C299	1-131-353-00 s TANTALUM 10uF 10% 35V
C112	1-131-353-00 s TANTALUM 10uF 10% 35V	C300	1-131-353-00 s TANTALUM 10uF 10% 35V
C119	1-131-353-00 s TANTALUM 10uF 10% 35V	C301	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C120	1-126-157-11 s ELECT 10uF 20% 16V	C302	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C121	1-131-353-00 s TANTALUM 10uF 10% 35V	C303	1-107-210-00 s MICA 22PF 5% 500V
C124	1-107-211-00 s MICA 24PF 5% 500V	C304	1-131-353-00 s TANTALUM 10uF 10% 35V
C130	1-107-202-00 s MICA 10PF 5% 500V	C305	1-131-353-00 s TANTALUM 10uF 10% 35V
C137	1-109-539-00 s MICA 150PF 5% 100V	C306	1-131-353-00 s TANTALUM 10uF 10% 35V
C140	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	C307	1-164-232-11 s CERAMIC 0.01uF 10% 50V
C141	1-131-353-00 s TANTALUM 10uF 10% 35V	C308	1-131-353-00 s TANTALUM 10uF 10% 35V
C142	1-131-353-00 s TANTALUM 10uF 10% 35V	C313	1-131-353-00 s TANTALUM 10uF 10% 35V
C144	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C314	1-131-353-00 s TANTALUM 10uF 10% 35V
C147	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	C315	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C148	1-131-353-00 s TANTALUM 10uF 10% 35V	C320	1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V
C149	1-131-353-00 s TANTALUM 10uF 10% 35V	C331	1-107-019-00 s MICA 1PF 500V
C164 C165 C166 C167 C170	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-126-157-11 s ELECT 10uF 20% 16V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-107-211-00 s MICA 24PF 5% 500V	C336 C340	1-107-208-00 s MICA 18PF 5% 500V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V

(EF-20 B	DARD)	(EF-20 B	OARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
IC71 IC72	8-759-204-94 s IC TC74HC00F 8-759-204-94 s IC TC74HC00F	Q32 Q33	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
IC72	8-759-982-31 s IC RC78M05FA	Q34	8-729-175-73 s TRANSISTOR 2SC2757
IC74 IC75	8-759-009-07 s IC MC14053BF 8-759-009-07 s IC MC14053BF	Q35 Q36	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
IC76	8-759-009-07 s IC MC14053BF	Q37	8-729-100-66 s TRANSISTOR 2SC1623
IC77 IC78	8-759-982-22 s IC RC78L05A 8-759-982-45 s IC RC79L06A	Q38 Q39	8-729-116-64 s TRANSISTOR 2SK508-K51 8-729-112-65 s TRANSISTOR 2SA1462
10/0	0-735-302-43 3 10 NO/3EOON	Q40	8-729-100-66 s TRANSISTOR 2SC1623
L1 L2	1-410-718-31 s INDUCTOR, CHIP 120uH 1-410-709-31 s INDUCTOR, CHIP 22uH	Q41	8-729-216-22 s TRANSISTOR 2SA1162
L3	1-410-718-31 s INDUCTOR, CHIP 120uH	Q42	8-729-216-22 s TRANSISTOR 2SA1162
L4	1-410-709-31 s INDUCTOR, CHIP 22uH 1-410-718-31 s INDUCTOR, CHIP 120uH	Q43	8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757
L5	1-410-710-31 S INDUCTOR, CHIP 120UN	Q45	8-729-112-65 s TRANSISTOR 2562757
L6	1-410-709-31 s INDUCTOR, CHIP 22uH	Q46	8-729-112-65 s TRANSISTOR 2SA1462
L7 L8	1-410-718-31 s INDUCTOR, CHIP 120uH 1-410-709-31 s INDUCTOR, CHIP 22uH	047	8-729-175-73 s TRANSISTOR 2SC2757
L9	1-410-718-31 s INDUCTOR, CHIP 120uH	Q48	8-729-112-65 s TRANSISTOR 2SA1462
L10	1-410-718-31 s INDUCTOR, CHIP 120uH	Q49	8-729-112-65 s TRANSISTOR 2SA1462
L11	1-410-718-31 s INDUCTOR, CHIP 120uH	Q50 Q51	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757
L12	1-410-718-31 s INDUCTOR, CHIP 120uH	•	
L13	1-410-718-31 s INDUCTOR, CHIP 120uH	Q52	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
L15 L16	1-410-718-31 s INDUCTOR, CHIP 120uH 1-410-718-31 s INDUCTOR, CHIP 120uH	Q53 Q54	8-729-175-73 s TRANSISTOR 25C2757
	·	055	8-729-175-73 s TRANSISTOR 2SC2757
L17 L19	1-410-718-31 s INDUCTOR, CHIP 120uH 1-410-718-31 s INDUCTOR, CHIP 120uH	Q56	8-729-100-66 s TRANSISTOR 2SC1623
L20	1-410-718-31 s INDUCTOR, CHIP 120uH	Q57	8-729-116-64 s TRANSISTOR 2SK508-K51
L22	1-410-718-31 s INDUCTOR, CHIP 120uH	Q58 Q59	8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623
Q1	8-729-175-73 s TRANSISTOR 2SC2757	Q60	8-729-216-22 s TRANSISTOR 2SA1162
Q2	8-729-112-65 s TRANSISTOR 2SA1462	Q61	8-729-216-22 s TRANSISTOR 2SA1162
Q3 Q4	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	062	8-729-100-66 s TRANSISTOR 2SC1623
Q 5	8-729-175-73 s TRANSISTOR 2SC2757	Q63	8-729-175-73 s TRANSISTOR 2SC2757
Q6	8-729-112-65 s TRANSISTOR 2SA1462	Q64 Q65	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462
Q7	8-729-175-73 s TRANSISTOR 2SC2757	Q66	8-729-175-73 s TRANSISTOR 2SC2757
Q8	8-729-112-65 s TRANSISTOR 2SA1462	067	0 700 110 6E a TRANSISTOR 2541462
09 010	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	Q67 068	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462
		Q69	8-729-175-73 s TRANSISTOR 2SC2757
011	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	070 071	8-729-175-73 s TRANSISTOR 2SC2/5/ 8-729-112-65 s TRANSISTOR 2SA1462
Q12 Q13	8-729-175-73 s TRANSISTOR 2SC2757	471	0-723-112-03 3 HARS1310K 23/11-02
014	8-729-112-65 s TRANSISTOR 2SA1462	072	8-729-112-65 s TRANSISTOR 2SA1462
Q15	8-729-175-73 s TRANSISTOR 2SC2757	Q73 074	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462
Q16	8-729-112-65 s TRANSISTOR 2SA1462	Q75	8-729-112-65 s TRANSISTOR 2SA1462
017	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	Q76	8-729-175-73 s TRANSISTOR 2SC2757
Q18 Q19	8-729-175-73 s TRANSISTOR 2SC2757	Q77	8-729-112-65 s TRANSISTOR 2SA1462
Q20	8-729-112-65 s TRANSISTOR 2SA1462	078	8-729-112-65 s TRANSISTOR 2SA1462
Q21	8-729-112-65 s TRANSISTOR 2SA1462	Q79 Q80	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757
Q22	8-729-175-73 s TRANSISTOR 2SC2757	Q81	8-729-175-73 s TRANSISTOR 2SC2757
Q23	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757	082	8-729-175-73 s TRANSISTOR 2SC2757
Q24 Q25	8-729-175-73 S TRANSISTOR 25C2757 8-729-175-73 S TRANSISTOR 25C2757	Q83	8-729-175-73 s TRANSISTOR 2SC2757
		Q84	8-729-175-73 s TRANSISTOR 2SC2757
Q26 Q27	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462	Q85 Q86	8-729-100-66 s TRANSISTOR 2SC1623 8-729-116-64 s TRANSISTOR 2SK508-K51
Q28	8-729-175-73 s TRANSISTOR 2SC2757	•	
Q29	8-729-112-65 s TRANSISTOR 2SA1462	Q87 Q88	8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623
Q30	8-729-112-65 s TRANSISTOR 2SA1462	089	8-729-216-22 s TRANSISTOR 2SA1162
Q31	8-729-112-65 s TRANSISTOR 2SA1462	Ò90	8-729-216-22 s TRANSISTOR 2SA1162

(EF-20 BOARD)	(EF-20 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
Q91 8-729-100-66 s TRANSISTOR 2SC1623 Q92 8-729-175-73 s TRANSISTOR 2SC2757 Q93 8-729-112-65 s TRANSISTOR 2SA1462 Q94 8-729-112-65 s TRANSISTOR 2SA1462 Q95 8-729-175-73 s TRANSISTOR 2SC2757	Q150 8-729-112-65 s TRANSISTOR 2SA1462 Q151 8-729-116-64 s TRANSISTOR 2SK508-K51 Q152 8-729-175-73 s TRANSISTOR 2SC2757 Q153 8-729-112-65 s TRANSISTOR 2SA1462 Q154 8-729-100-66 s TRANSISTOR 2SC1623
Q96 8-729-112-65 s TRANSISTOR 2SA1462 Q97 8-729-112-65 s TRANSISTOR 2SA1462 Q98 8-729-175-73 s TRANSISTOR 2SC2757 Q99 8-729-175-73 s TRANSISTOR 2SC2757 Q100 8-729-112-65 s TRANSISTOR 2SA1462	Q155 8-729-216-22 s TRANSISTOR 2SA1162 Q156 8-729-100-66 s TRANSISTOR 2SC1623 Q157 8-729-116-64 s TRANSISTOR 2SK508-K51 Q158 8-729-112-65 s TRANSISTOR 2SA1462 Q159 8-729-112-65 s TRANSISTOR 2SA1462
Q101 8-729-112-65 s TRANSISTOR 2SA1462 Q102 8-729-175-73 s TRANSISTOR 2SC2757 Q103 8-729-112-65 s TRANSISTOR 2SA1462 Q104 8-729-112-65 s TRANSISTOR 2SA1462 Q105 8-729-175-73 s TRANSISTOR 2SC2757	Q160 8-729-116-64 s TRANSISTOR 2SK508-K51 Q161 8-729-100-66 s TRANSISTOR 2SC1623 Q162 8-729-175-73 s TRANSISTOR 2SC2757 Q163 8-729-175-73 s TRANSISTOR 2SC2757 Q164 8-729-175-73 s TRANSISTOR 2SC2757
0110 8-729-175-73 s TRANSISTOR 2SC2757	Q165 8-729-175-73 s TRANSISTOR 2SC2757 Q166 8-729-175-73 s TRANSISTOR 2SC2757 Q167 8-729-216-22 s TRANSISTOR 2SA1162 Q168 8-729-175-73 s TRANSISTOR 2SC2757 Q169 8-729-116-64 s TRANSISTOR 2SK508-K51
0114 8 720 100 66 c TDANGISTUR 2502/5/	Q170 8-729-175-73 s TRANSISTOR 2SC2757 Q171 8-729-175-73 s TRANSISTOR 2SC2757 Q172 8-729-112-65 s TRANSISTOR 2SA1462 Q173 8-729-116-64 s TRANSISTOR 2SK508-K51 Q174 8-729-112-65 s TRANSISTOR 2SA1462
0116 8-729-112-65 s TRANSISTOR 2SA1462 0117 8-729-100-66 s TRANSISTOR 2SC1623 0118 8-729-216-22 s TRANSISTOR 2SA1162 0119 8-729-216-22 s TRANSISTOR 2SA1162 0120 8-729-100-66 s TRANSISTOR 2SC1623	Q175 8-729-112-65 s TRANSISTOR 2SA1462 Q176 8-729-175-73 s TRANSISTOR 2SC2757 Q177 8-729-175-73 s TRANSISTOR 2SC2757 Q178 8-729-112-65 s TRANSISTOR 2SA1462 Q179 8-729-100-66 s TRANSISTOR 2SC1623
Q121 8-729-175-73 s TRANSISTOR 2SC2757 Q122 8-729-175-73 s TRANSISTOR 2SC2757 Q123 8-729-175-73 s TRANSISTOR 2SC2757 Q124 8-729-175-73 s TRANSISTOR 2SC2757 Q125 8-729-175-73 s TRANSISTOR 2SC2757	Q180 8-729-112-65 s TRANSISTOR 2SA1462 Q181 8-729-112-65 s TRANSISTOR 2SA1462 Q182 8-729-175-73 s TRANSISTOR 2SC2757 Q183 8-729-175-73 s TRANSISTOR 2SC2757 Q184 8-729-175-73 s TRANSISTOR 2SC2757
Q126 8-729-100-66 s TRANSISTOR 2SC1623 Q127 8-729-216-22 s TRANSISTOR 2SA1162 Q128 8-729-100-66 s TRANSISTOR 2SC1623 Q129 8-729-216-22 s TRANSISTOR 2SA1162 Q130 8-729-175-73 s TRANSISTOR 2SC2757	Q185 8-729-100-66 s TRANSISTOR 2SC1623 Q186 8-729-100-66 s TRANSISTOR 2SC1623 Q187 8-729-100-66 s TRANSISTOR 2SC1623 Q189 8-729-216-22 s TRANSISTOR 2SA1162 Q190 8-729-216-22 s TRANSISTOR 2SA1162
Q131 8-729-100-66 s TRANSISTOR 2SC1623 Q132 8-729-116-64 s TRANSISTOR 2SK508-K51 Q133 8-729-216-22 s TRANSISTOR 2SA1162 Q134 8-729-175-73 s TRANSISTOR 2SC2757 Q135 8-729-100-66 s TRANSISTOR 2SC1623	Q191 8-729-216-22 s TRANSISTOR 2SA1162 Q193 8-729-175-73 s TRANSISTOR 2SC2757 Q194 8-729-175-73 s TRANSISTOR 2SC2757 Q195 8-729-112-65 s TRANSISTOR 2SA1462 Q196 8-729-116-64 s TRANSISTOR 2SK508-K51
Q136 8-729-116-64 s TRANSISTOR 2SK508-K51 Q137 8-729-216-22 s TRANSISTOR 2SA1162 Q138 8-729-175-73 s TRANSISTOR 2SC2757 Q139 8-729-175-73 s TRANSISTOR 2SC2757 Q140 8-729-175-73 s TRANSISTOR 2SC2757	Q197 8-729-175-73 s TRANSISTOR 2SC2757 Q198 8-729-112-65 s TRANSISTOR 2SA1462 Q199 8-729-175-73 s TRANSISTOR 2SC2757 Q200 8-729-112-65 s TRANSISTOR 2SA1462 Q201 8-729-112-65 s TRANSISTOR 2SA1462
Q141 8-729-175-73 s TRANSISTOR 2SC2757 Q142 8-729-112-65 s TRANSISTOR 2SA1462 Q143 8-729-116-64 s TRANSISTOR 2SK508-K51 Q144 8-729-175-73 s TRANSISTOR 2SC2757 Q145 8-729-112-65 s TRANSISTOR 2SA1462	Q202 8-729-175-73 s TRANSISTOR 2SC2757 Q203 8-729-112-65 s TRANSISTOR 2SA1462 Q204 8-729-112-65 s TRANSISTOR 2SA1462 Q205 8-729-112-65 s TRANSISTOR 2SA1462 Q206 8-729-112-65 s TRANSISTOR 2SA1462
Q146 8-729-175-73 s TRANSISTOR 2SC2757 Q147 8-729-175-73 s TRANSISTOR 2SC2757 Q148 8-729-175-73 s TRANSISTOR 2SC2757 Q149 8-729-175-73 s TRANSISTOR 2SC2757	Q207 8-729-175-73 s TRANSISTOR 2SC2757 Q208 8-729-175-73 s TRANSISTOR 2SC2757 Q209 8-729-175-73 s TRANSISTOR 2SC2757 Q210 8-729-175-73 s TRANSISTOR 2SC2757

(EF-20 BOARD)

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Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
0212	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	R962 R963 R978	1-249-418-11 s CARBON 1.2K 5% 1/4W 1-249-418-11 s CARBON 1.2K 5% 1/4W 1-215-449-11 s METAL FILM 15K
Q214	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	RV1 RV2	1-237-032-11 s RES, ADJ, METAL 500 1-237-032-11 s RES, ADJ, METAL 500
Q217	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623	RV3 RV4	1-237-036-11 s RES, ADJ, METAL 10K 1-237-035-11 s RES, ADJ, METAL 5K
Q219	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623	RV5 RV6	1-237-037-11 s RES, ADJ, METAL 20K 1-237-032-11 s RES, ADJ, METAL 500
Q221	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	RV7 RV8 RV9	1-237-032-11 s RES, ADJ, METAL 500 1-237-036-11 s RES, ADJ, METAL 10K 1-237-035-11 s RES, ADJ, METAL 5K
Q223 Q224	8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	RV10	1-237-037-11 s RES, ADJ, METAL 20K
Q226	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623	RV11 RV12 RV14	1-237-032-11 s RES, ADJ, METAL 500 1-237-032-11 s RES, ADJ, METAL 500 1-237-035-11 s RES, ADJ, METAL 5K
0228	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-73 s TRANSISTOR 2SC2757	RV15 RV16	1-237-037-11 s RES, ADJ, METAL 20K 1-237-032-11 s RES, ADJ, METAL 500
Q230	8-729-100-66 s TRANSISTOR 2SC1623 8-729-116-64 s TRANSISTOR 2SK508-K51	RV17 RV19 RV20	1-237-032-11 s RES, ADJ, METAL 500 1-237-035-11 s RES, ADJ, METAL 5K 1-237-037-11 s RES, ADJ, METAL 20K
Q232 Q234	8-729-216-22 s TRANSISTOR 2SA1162 8-729-112-65 s TRANSISTOR 2SA1462	RV21 RV23	1-237-032-11 s RES, ADJ, METAL 500 1-237-032-11 s RES, ADJ, METAL 500
Q237	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	RV24 RV25	1-237-037-11 s RES, ADJ, METAL 20K 1-237-032-11 s RES, ADJ, METAL 500
Q240	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462	RV26 RV27 RV28	1-237-037-11 s RES, ADJ, METAL 20K 1-237-031-11 s RES, ADJ, METAL 200 1-237-035-11 s RES, ADJ, METAL 5K
	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	RV30 RV31	1-237-034-11 s RES, ADJ, METAL 2K 1-237-033-11 s RES, ADJ, METAL 1K
Q245	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	RV32 RV33 RV34	1-237-036-11 s RES, ADJ, METAL 10K 1-237-031-11 s RES, ADJ, METAL 200 1-237-035-11 s RES, ADJ, METAL 5K
Q247	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	RV36	1-237-034-11 s RES, ADJ, METAL 2K
Q250	8-729-175-73 s TRANSISTOR 2SC2757 8-729-116-64 s TRANSISTOR 2SK508-K51	RV37 RV38 RV39	1-237-033-11 s RES, ADJ, METAL 1K 1-237-036-11 s RES, ADJ, METAL 10K 1-237-032-11 s RES, ADJ, METAL 500
Q252	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	RV39 RV39	1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K
Q254	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757	RV40 RV40 RV40	1-237-032-11 s RES, ADJ, METAL 500 1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K
Q256	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462	RV42	1-237-032-11 s RES, ADJ, METAL 500
	1-216-309-00 s METAL 5.6 5% 1/10W 1-216-309-00 s METAL 5.6 5% 1/10W	RV43 RV44 RV45	1-237-032-11 s RES, ADJ, METAL 500 1-237-030-11 s RES, ADJ, CERMET 100 1-237-034-11 s RES, ADJ, METAL 2K
R608	1-215-394-00 s METAL 75 1% 1/6W 1-216-309-00 s METAL 5.6 5% 1/10W 1-216-309-00 s METAL 5.6 5% 1/10W	RV46 RV47	1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K
	1-216-309-00 s METAL 5.6 5% 1/10W 1-216-309-00 s METAL 5.6 5% 1/10W	RV48 RV49 RV50	1-237-034-11 s res, adj, metal 2K 1-237-033-11 s res, adj, metal 1K 1-237-034-11 s res, adj, metal 2K
R612 R613	1-215-394-00 s METAL 75 1% 1/6W 1-215-394-00 s METAL 75 1% 1/6W 1-215-394-00 s METAL 75 1% 1/6W	RV51 RV52	1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K
R680	1-216-309-00 s METAL 5.6 5% 1/10W	RV53 RV54 RV55	1-237-033-11 s RES, ADJ, METAL 1K 1-237-498-21 s RES, ADJ, CERMET 200 1-237-032-11 s RES, ADJ, METAL 500
R682 R780	1-216-309-00 s METAL 5.6 5% 1/10W 1-215-394-00 s METAL 75 1% 1/6W 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W	RV56 RV57	1-237-035-11 s RES, ADJ, METAL 5K 1-237-034-11 s RES, ADJ, METAL 2K
01	Y FTO 070-TT O HEHIM! OHTH OO ASON TATAL		

(EF-20 BOARD)

Ref. No. or Q'ty Part No. SP Description 1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K **RV58 RV59** 1-237-498-21 s RES, ADJ, CERMET 200 1-237-029-11 s RES, ADJ, METAL 50 **RV60 RV61** 1-237-032-11 s RES, ADJ, METAL 500 **RV62** 1-237-030-11 s RES, ADJ, CERMET 100 RV64 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K **RV65 RV66 RV67** 1-237-037-11 s RES, ADJ, METAL 20K **RV68** 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-030-11 s RES, ADJ, CERMET 100 **RV69 RV70 RV71**

EF-20C BOARD

Ref. No. or Q'ty Part No. SP Description A-6257-256-A o MOUNTED CIRCUIT BOARD, EF-20C (P) 1-563-521-11 o CONNECTOR, 20P, FEMALE 2-139-140-01 o PLATE, SHIELD 1pc 1pc 2-182-909-01 o LEVER, PC BOARD 2pcs 7-621-772-40 s SCREW +B 2X8 1pc 7-626-320-11 o PIN, SPRING 3X8 7-682-947-01 s SCREW +PSW 3X6 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S 2pcs 1pc 6pcs 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V **C5** 1-124-282-00 S ELECT, NONPOLAR 22uF 20% 25V C9 C13 **C17** 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-131-353-00 s TANTALUM 10uF 10% 35V C21 C25 C29 C33 1-131-353-00 s TANTALUM 10uF 10% 35V C35 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C51 C53 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C61 C62 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V **C66** 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V **C67** C68 C69 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C76 **C78** 1-107-211-00 s MICA 24PF 5% 500V 1-107-202-00 s MICA 10PF 5% 500V C81 COD 1-10/-202-00 S MICA 10FF 3% 500V 1-126-157-11 S ELECT 10uF 20% 16V 1-131-353-00 S TANTALUM 10uF 10% 35V 1-131-353-00 S TANTALUM 10uF 10% 35V C100 C102 C103 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C108 C109 C110 C111 C112 1-131-353-00 s TANTALUM 10uF 10% 35V C119 1-126-157-11 s ELECT 10uF 20% 16V C120 1-131-353-00 s TANTALUM 10uF 10% 35V C121 1-107-211-00 s MICA 24PF 5% 500V C124 1-107-202-00 s MICA 10PF 5% 500V C130 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C140 C141 C142 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V C147 C148 1-131-353-00 s TANTALUM 10uF 10% 35V C149 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C164 1-131-353-00 s TANTALUM 10uF 10% 35V C165 1-126-157-11 s ELECT 10uF 20% 16V C166 1-131-353-00 s TANTALUM 10uF 10% 35V C167 1-107-211-00 s MICA 24PF 5% 500V 1-107-202-00 s MICA 10PF 5% 500V C170 C176 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C187 C188 C189

(EF-20C	BOARD)	(EF-20C BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
Q69 Q70 Q71 Q72 Q73	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757	Q134 8-729-175-73 s TRANSISTOR 2SC2757 Q135 8-729-100-66 s TRANSISTOR 2SC1623 Q136 8-729-116-64 s TRANSISTOR 2SK508-K51 Q137 8-729-216-22 s TRANSISTOR 2SA1162 Q138 8-729-175-73 s TRANSISTOR 2SC2757
Q74 Q75 Q76 Q77 Q78	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462	Q139 8-729-175-73 S TRANSISTOR 2SC2757 Q140 8-729-175-73 S TRANSISTOR 2SC2757 Q141 8-729-175-73 S TRANSISTOR 2SC2757 Q142 8-729-112-65 S TRANSISTOR 2SA1462 Q143 8-729-116-64 S TRANSISTOR 2SK508-K51
Q79 Q80 Q81 Q82 Q83	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	Q144 8-729-175-73 S TRANSISTOR 2SC2757 Q145 8-729-112-65 S TRANSISTOR 2SA1462 Q146 8-729-175-73 S TRANSISTOR 2SC2757 Q147 8-729-175-73 S TRANSISTOR 2SC2757 Q148 8-729-175-73 S TRANSISTOR 2SC2757
Q84 Q85 Q86 Q87 Q90	8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-116-64 s TRANSISTOR 2SK508-K51 8-729-112-65 s TRANSISTOR 2SA1462 8-729-216-22 s TRANSISTOR 2SA1162	Q149 8-729-175-73 s TRANSISTOR 2SC2757 Q150 8-729-112-65 s TRANSISTOR 2SA1462 Q151 8-729-116-64 s TRANSISTOR 2SK508-K51 Q152 8-729-175-73 s TRANSISTOR 2SC2757 Q153 8-729-112-65 s TRANSISTOR 2SA1462
Q92 Q93 Q94 Q95 Q96	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	Q154 8-729-100-66 s TRANSISTOR 2SC1623 Q155 8-729-216-22 s TRANSISTOR 2SA1162 Q156 8-729-100-66 s TRANSISTOR 2SC1623 Q157 8-729-116-64 s TRANSISTOR 2SK508-K51 Q158 8-729-112-65 s TRANSISTOR 2SA1462
Q97 Q98 Q99 Q100 Q101	8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462	Q159 8-729-112-65 s TRANSISTOR 2SA1462 Q160 8-729-116-64 s TRANSISTOR 2SK508-K51 Q161 8-729-100-66 s TRANSISTOR 2SC1623 Q162 8-729-175-73 s TRANSISTOR 2SC2757 Q163 8-729-175-73 s TRANSISTOR 2SC2757
Q102 Q103 Q104 Q105 Q106	8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462	Q164 8-729-175-73 s TRANSISTOR 2SC2757 Q165 8-729-175-73 s TRANSISTOR 2SC2757 Q168 8-729-175-73 s TRANSISTOR 2SC2757 Q169 8-729-116-64 s TRANSISTOR 2SK508-K51 Q170 8-729-175-73 s TRANSISTOR 2SC2757
Q107 Q108 Q109 Q110 Q111	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	Q171 8-729-175-73 s TRANSISTOR 2SC2757 Q172 8-729-112-65 s TRANSISTOR 2SA1462 Q173 8-729-116-64 s TRANSISTOR 2SK508-K51 Q174 8-729-112-65 s TRANSISTOR 2SA1462 Q175 8-729-112-65 s TRANSISTOR 2SA1462
Q112 Q113 Q114 Q115 Q116	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-116-64 s TRANSISTOR 2SK508-K51 8-729-112-65 s TRANSISTOR 2SA1462	Q176 8-729-175-73 s TRANSISTOR 2SC2757 Q177 8-729-175-73 s TRANSISTOR 2SC2757 Q178 8-729-112-65 s TRANSISTOR 2SA1462 Q179 8-729-100-66 s TRANSISTOR 2SC1623 Q180 8-729-112-65 s TRANSISTOR 2SA1462
Q119 Q121 Q122 Q123 Q124	8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757	Q181 8-729-112-65 s TRANSISTOR 2SA1462 Q182 8-729-175-73 s TRANSISTOR 2SC2757 Q183 8-729-175-73 s TRANSISTOR 2SC2757 Q184 8-729-175-73 s TRANSISTOR 2SC2757 Q185 8-729-100-66 s TRANSISTOR 2SC1623
Q125 Q126 Q127 Q128 Q129	8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	Q186 8-729-100-66 s TRANSISTOR 2SC1623 Q187 8-729-100-66 s TRANSISTOR 2SC1623 Q189 8-729-216-22 s TRANSISTOR 2SA1162 Q190 8-729-216-22 s TRANSISTOR 2SA1162 Q191 8-729-216-22 s TRANSISTOR 2SA1162
Q130 Q131 Q132 Q133	8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-116-64 s TRANSISTOR 2SK508-K51 8-729-216-22 s TRANSISTOR 2SA1162	Q193 8-729-175-73 s TRANSISTOR 2SC2757 Q194 8-729-175-73 s TRANSISTOR 2SC2757 Q195 8-729-112-65 s TRANSISTOR 2SA1462 Q196 8-729-116-64 s TRANSISTOR 2SK508-K51

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SD-19 BOARD
(EF-20C BOARD)
                                                                                                            Ref. No.
                                                                                                            or Q'ty Part No.
                                                                                                                                                SP Description
or Q'ty Part No.
                                   SP Description
               1-237-033-11 s RES, ADJ, METAL 1K
1-237-033-11 s RES, ADJ, METAL 1K
                                                                                                                            A-6257-252-A o MOUNTED CIRCUIT BOARD, SD-19 (P)
RV51
                                                                                                                           1-563-521-11 o CONNECTOR, 20P, FEMALE
2-139-140-01 o PLATE, SHIELD
2-182-909-01 o LEVER, PC BOARD
                                                                                                            18pcs
RV52
               1-237-033-11 s RES, ADJ, METAL 1K
1-237-498-21 s RES, ADJ, CERMET 200
RV53
                                                                                                            1pc
RV54
                                                                                                            2pcs
RV55
               1-237-032-11 s RES, ADJ, METAL 500
                                                                                                            4pcs
                                                                                                                            3-621-124-00 o SPACER
               1-237-035-11 s RES, ADJ, METAL 5K
1-237-034-11 s RES, ADJ, METAL 2K
1-237-033-11 s RES, ADJ, METAL 1K
1-237-033-11 s RES, ADJ, METAL 1K
1-237-498-21 s RES, ADJ, CERMET 200
                                                                                                                           7-626-320-11 o PIN, SPRING 3X8
7-682-947-01 s SCREW +PSW 3X6
7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S
RV56
                                                                                                            2pcs
                                                                                                            1pc
RV57
RV58
                                                                                                            6pcs
RV59
                                                                                                                           1-131-353-00 s TANTALUM 10uF 10% 35V
RV60
                                                                                                            C1
                                                                                                            C2
C3
RV61
               1-237-029-11 s RES, ADJ, METAL 50
RV62
               1-237-032-11 s RES, ADJ, METAL 500
                                                                                                            C4
RV64
               1-237-030-11 s RES, ADJ, CERMET 100
                                                                                                            C6
                                                                                                                            1-124-589-11 s ELECT 47uF 20% 16V
               1-237-037-11 s RES, ADJ, METAL 20K
RV65
                                                                                                            C9
                                                                                                                            1-124-589-11 s ELECT 47uF 20% 16V
RV66
               1-237-037-11 s RES, ADJ, METAL 20K
                                                                                                                           1-124-389-11 S ELECT 474F 20% 10V

1-107-210-00 S MICA 22PF 5% 500V

1-107-085-00 S MICA 100PF 5% 50V

1-107-085-00 S MICA 100PF 5% 50V

1-131-353-00 S TANTALUM 10uF 10% 35V
                                                                                                            C12
               1-237-037-11 s RES, ADJ, METAL 20K
1-237-037-11 s RES, ADJ, METAL 20K
RV67
                                                                                                            C17
RV68
                                                                                                            C20
               1-237-037-11 s RES, ADJ, METAL 20K
1-237-037-11 s RES, ADJ, METAL 20K
RV69
                                                                                                            C22
RV70
                                                                                                                           1-126-160-11 s ELECT 1uF 20% 50V
1-131-353-00 s TANTALUM 10uF 10% 35V
RV71
               1-237-030-11 s RES, ADJ, CERMET 100
                                                                                                            C24
                                                                                                                           1-124-589-11 s ELECT 47uF 20% 16V
1-109-539-00 s MICA 150PF 5% 100V
1-124-589-11 s ELECT 47uF 20% 16V
                                                                                                            C26
                                                                                                            C27
                                                                                                            C29
                                                                                                                           1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V
1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                                                            C30
DUS-312 BOARD
                                                                                                            C31
                                                                                                                           1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V
1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                                                            C32
                                                                                                            C33
Ref. No.
                                                                                                                            1-124-589-11 s ELECT 47uF 20% 16V
or Q'ty Part No.
                                                                                                            C34
                                   SP Description
               1-632-548-11 o PRINTED CIRCUIT BOARD, DUS-312
3-659-757-00 s SPACER (4X8.5)
7-682-952-01 s SCRW +PSW 3X16
                                                                                                                           1-164-232-11 s CERAMIC 0.01uF 10% 50V
1-164-232-11 s CERAMIC 0.01uF 10% 50V
1-131-353-00 s TANTALUM 10uF 10% 35V
1-131-353-00 s TANTALUM 10uF 10% 35V
                                                                                                            C37
2pcs
                                                                                                            C38
                                                                                                            C42
2pcs
               7-684-023-04 s N 3, TYPE 2
                                                                                                            C43
2pcs
                                                                                                            C48
                                                                                                                            1-107-075-00 s MICA 39PF 5% 50V
               8-759-990-82 s IC TL082CP
TC1081
                                                                                                                           1-107-049-00 s MICA 8.2PF 500V
1-107-085-00 s MICA 100PF 5% 50V
1-107-085-00 s MICA 100PF 5% 50V
1-131-353-00 s TANTALUM 10uF 10% 35V
1-131-353-00 s TANTALUM 10uF 10% 35V
                                                                                                            C49
               1-215-433-00 s METAL 3.3K 1% 1/6W 1-215-445-00 s METAL 10K 1% 1/6W
                                                                                                            C53
R1001
                                                                                                            C54
R1002
               1-215-469-00 s METAL 100K 1% 1/6W
                                                                                                            C65
R1003
                                                                                                            C68
S1001
               1-554-295-00 s SWITCH, SLIDE
                                                                                                            C71
                                                                                                                            1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V
                                                                                                                           1-124-589-11 s ELECT 47uF 20% 16V
1-124-589-11 s ELECT 47uF 20% 16V
1-124-589-11 s ELECT 47uF 20% 16V
                                                                                                            C77
              1-237-503-21 s RES, ADJ, METAL 10K
VR1081
                                                                                                            C80
                                                                                                            C82
                                                                                                                           1-124-589-11 s ELECT 47uF 20% 16V
                                                                                                            C85
                                                                                                                           1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V
1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V
                                                                                                            C87
                                                                                                            C88
                                                                                                            C89
                                                                                                                           1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
1-124-589-11 s ELECT 47uF 20% 16V
                                                                                                            C90
                                                                                                            092
                                                                                                                           1-164-232-11 s CERAMIC 0.01uF 10% 50V
1-164-232-11 s CERAMIC 0.01uF 10% 50V
                                                                                                            093
                                                                                                            C95
                                                                                                                           1-131-353-00 s TANTALUM 10uF 10% 35V
1-131-353-00 s TANTALUM 10uF 10% 35V
                                                                                                            C101
                                                                                                            C102
                                                                                                            C106
                                                                                                                           1-126-157-11 s ELECT 10uF 20% 16V
                                                                                                                           1-131-353-00 s TANTALUM 10uF 10% 35V
1-131-353-00 s TANTALUM 10uF 10% 35V
                                                                                                            C107
                                                                                                            C108
                                                                                                                           1-164-232-11 s CERAMIC 0.01uF 10% 50V
1-107-085-00 s MICA 100PF 5% 50V
                                                                                                            C109
                                                                                                            C118
                                                                                                                           1-131-353-00 s TANTALUM 10uF 10% 35V
                                                                                                            C122
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(SD-19 E	BOARD)	(SD-19 BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
C123 C125 C128 C129 C138	1-131-353-00 s TANTALUM 10uF 10% 35V 1-107-085-00 s MICA 100PF 5% 50V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-107-209-00 s MICA 20PF 5% 500V	C332 1-124-589-11 s ELECT 47uF 20% 16V C334 1-124-589-11 s ELECT 47uF 20% 16V C337 1-124-589-11 s ELECT 47uF 20% 16V C338 1-124-589-11 s ELECT 47uF 20% 16V C341 1-124-589-11 s ELECT 47uF 20% 16V
C141 C142 C143 C145 C151	1-107-207-00 s MICA 16PF 5% 500V 1-107-207-00 s MICA 16PF 5% 500V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-107-085-00 s MICA 100PF 5% 50V 1-131-353-00 s TANTALUM 10uF 10% 35V	C358 1-164-232-11 s CERAMIC 0.01uF 10% 50V C367 1-162-638-11 s CERAMIC, CHIP 1uF 16V C368 1-162-638-11 s CERAMIC, CHIP 1uF 16V C380 1-124-589-11 s ELECT 47uF 20% 16V C382 1-124-589-11 s ELECT 47uF 20% 16V
C153 C160 C163 C165 C168	1-131-353-00 s TANTALUM 10uF 10% 35V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	C384 1-124-589-11 s ELECT 47uF 20% 16V C386 1-124-589-11 s ELECT 47uF 20% 16V C397 1-124-589-11 s ELECT 47uF 20% 16V C398 1-124-589-11 s ELECT 47uF 20% 16V C399 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C170 C171 C172 C173 C174	1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-124-589-11 s ELECT 47uF 20% 16V	C446 1-107-085-00 s MICA 100PF 5% 50V C447 1-107-090-00 s MICA 160PF 5% 50V C448 1-107-090-00 s MICA 160PF 5% 50V
C177 C179 C184 C185 C189	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V	C450 1-124-234-00 s ELECT 22uF 20% 16V C483 1-124-589-11 s ELECT 47uF 20% 16V C497 1-124-589-11 s ELECT 47uF 20% 16V C512 1-126-157-11 s ELECT 10uF 20% 16V
C190 C191 C210 C217 C220	1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	C519 1-107-085-00 s MICA 100PF 5% 50V C521 1-162-638-11 s CERAMIC, CHIP 1uF 16V C522 1-162-638-11 s CERAMIC, CHIP 1uF 16V C527 1-107-085-00 s MICA 100PF 5% 50V C530 1-131-353-00 s TANTALUM 10uF 10% 35V C537 1-131-353-00 s TANTALUM 10uF 10% 35V
C222 C225 C227 C228 C231	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	C538 1-131-353-00 s TANTALUM 10uF 10% 35V
C232 C234 C236 C238 C243	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-124-589-11 s ELECT 47uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-131-353-00 s TANTALUM 10uF 10% 35V	C581 1-164-232-11 s CERAMIC 0.01uF 10% 50V C586 1-131-353-00 s TANTALUM 10uF 10% 35V C587 1-131-353-00 s TANTALUM 10uF 10% 35V C590 1-131-353-00 s TANTALUM 10uF 10% 35V C591 1-131-353-00 s TANTALUM 10uF 10% 35V
C244 C248 C249 C250 C260	1-131-353-00 s TANTALUM 10uF 10% 35V 1-126-157-11 s ELECT 10uF 20% 16V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C596 1-162-638-11 s CERAMIC, CHIP 1uF 16V C597 1-162-638-11 s CERAMIC, CHIP 1uF 16V C598 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C610 1-107-085-00 s MICA 100PF 5% 50V C627 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V
C264 C267 C268 C274 C281	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C640 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V C644 1-107-157-00 s MICA 27PF 5% 500V C645 1-107-157-00 s MICA 27PF 5% 500V C646 1-107-157-00 s MICA 27PF 5% 500V C647 1-107-157-00 s MICA 27PF 5% 500V
C285 C287 C288 C293 C295	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	CN1 1-506-747-11 s CONNECTOR, DIN 64P, MALE CN2 1-506-747-11 s CONNECTOR, DIN 64P, MALE CN3 1-506-747-11 s CONNECTOR, DIN 64P, MALE D1 8-719-100-03 s DIODE 1S2835
C297 C314 C323 C325	1-124-589-11 s ELECT 47uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	D2 8-719-100-05 s DIODE 1S2837 D3 8-719-800-76 s DIODE 1SS226 D4 8-719-800-76 s DIODE 1SS226 D5 8-719-800-76 s DIODE 1SS226

8-759-702-07 s IC NJM13700M

IC17

IC79

8-759-984-88 s IC LM6361M

(SD-19 BOARD)	(SD-19 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
IC80 8-759-011-64 s IC MC74HC4052F IC81 8-741-100-42 s IC SBX1594-01 IC82 8-759-984-88 s IC LM6361M IC83 8-759-011-64 s IC MC74HC4052F IC84 8-741-100-42 s IC SBX1594-01	Q16 8-729-112-65 s TRANSISTOR 2SA1462 Q17 8-729-100-66 s TRANSISTOR 2SC1623 Q18 8-729-216-22 s TRANSISTOR 2SA1162 Q19 8-729-100-66 s TRANSISTOR 2SC1623 Q20 8-729-216-22 s TRANSISTOR 2SA1162
IC85 8-759-200-79 s IC TC4049BF IC86 8-759-011-65 s IC MC74HC4053F IC87 8-759-984-88 s IC LM6361M IC88 8-759-011-65 s IC MC74HC4053F IC89 8-741-100-42 s IC SBX1594-01	Q21 8-729-216-22 s TRANSISTOR 2SA1162 Q22 8-729-100-66 s TRANSISTOR 2SC1623 Q23 8-729-216-22 s TRANSISTOR 2SA1162 Q24 8-729-216-22 s TRANSISTOR 2SA1162 Q25 8-729-112-65 s TRANSISTOR 2SA1462
IC90 8-759-984-88 s IC LM6361M IC91 8-759-984-88 s IC LM6361M IC92 8-759-984-88 s IC LM6361M IC95 8-759-984-88 s IC LM6361M IC96 8-759-984-88 s IC LM6361M	Q26 8-729-112-65 s TRANSISTOR 2SA1462 Q27 8-729-175-73 s TRANSISTOR 2SC2757 Q28 8-729-175-73 s TRANSISTOR 2SC2757 Q29 8-729-175-73 s TRANSISTOR 2SC2757 Q30 8-729-175-73 s TRANSISTOR 2SC2757
IC97 8-759-200-79 s IC TC4049BF IC98 8-759-982-20 s IC RC78L02A IC99 8-759-200-79 s IC TC4049BF IC101 8-759-982-20 s IC RC78L02A IC102 8-759-984-88 s IC LM6361M	Q31 8-729-112-65 s TRANSISTOR 2SA1462 Q32 8-729-100-66 s TRANSISTOR 2SC1623 Q33 8-729-216-22 s TRANSISTOR 2SA1162 Q34 8-729-100-66 s TRANSISTOR 2SC1623 Q35 8-729-216-22 s TRANSISTOR 2SA1162
IC110 8-759-114-06 s IC UPC814G2-1 IC111 8-759-114-06 s IC UPC814G2-1 IC112 8-759-011-65 s IC MC74HC4053F IC113 8-759-984-88 s IC LM6361M IC115 8-759-009-07 s IC MC14053BF	Q48 8-729-100-66 s TRANSISTOR 2SC1623 Q49 8-729-100-66 s TRANSISTOR 2SC1623 Q50 8-729-216-22 s TRANSISTOR 2SA1162 Q51 8-729-100-66 s TRANSISTOR 2SC1623 Q52 8-729-100-66 s TRANSISTOR 2SC1623
IC120 8-759-009-67 s IC MC14584BF IC121 8-759-702-07 s IC NJM13700M IC122 8-759-982-21 s IC RC78L05A IC123 8-759-982-44 s IC RC79L05A IC125 8-759-114-06 s IC UPC814G2-1	Q53 8-729-216-22 s TRANSISTOR 2SA1162 Q54 8-729-100-66 s TRANSISTOR 2SC1623 Q55 8-729-216-22 s TRANSISTOR 2SA1162 Q56 8-729-216-22 s TRANSISTOR 2SA1162 Q57 8-729-112-65 s TRANSISTOR 2SA1462
JR5 1-216-295-00 s METAL, CHIP 0-OHM	Q58 8-729-100-66 s TRANSISTOR 2SC1623 059 8-729-100-66 s TRANSISTOR 2SC1623
L8 1-410-718-31 s INDUCTOR, CHIP 120uH L11 1-410-718-31 s INDUCTOR, CHIP 120uH L12 1-410-718-31 s INDUCTOR, CHIP 120uH L16 1-410-718-31 s INDUCTOR, CHIP 120uH L20 1-410-718-31 s INDUCTOR, CHIP 120uH	Q59 8-729-100-66 s TRANSISTOR 2SC1623 Q60 8-729-100-66 s TRANSISTOR 2SC1623 Q61 8-729-175-73 s TRANSISTOR 2SC2757 Q62 8-729-175-73 s TRANSISTOR 2SC2757
L23 1-410-713-61 s INDUCTOR CHIP 330uH L28 1-410-711-31 s INDUCTOR CHIP 33uH	064 8-729-175-73 s TRANSISTOR 2SC2757 065 8-729-175-73 s TRANSISTOR 2SC2757 066 8-729-100-66 s TRANSISTOR 2SC1623 067 8 729 100-66 s TRANSISTOR 2SC1623

1-410-718-31 s INDUCTOR, CHIP 120uH 1-410-718-31 s INDUCTOR, CHIP 120uH

1-410-714-31 s INDUCTOR CHIP 56uH

1-410-714-31 s INDUCTOR CHIP 56uH

8-729-100-66 s TRANSISTOR 2SC1623

8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162

8-729-100-66 s TRANSISTOR 2SC1623

8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623

8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757

8-729-100-66 s TRANSISTOR 2SC1623

8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162

8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623

L30

L31

L33

L34

Q2 Q3 Q4

Ò5

Q6 Q7

Q8

Q9

Q10

011

Q12

Q13

Q14

Q15

Q67

068

069

070 071

Q72

Q73

Q74

075

Q76

Q77

Q78

Q79

Q80

Q81

082

083

084

085

086

8-729-100-66 s TRANSISTOR 2SC1623

8-729-175-73 s TRANSISTOR 2SC2757

8-729-100-66 s TRANSISTOR 2SC1623

8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162

8-729-216-22 s TRANSISTOR 2SA1162

8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623

8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623

8-729-175-73 s TRANSISTOR 2SC2757

8-729-175-73 s TRANSISTOR 2SC2757

8-729-175-73 s TRANSISTOR 2SC2757

8-729-100-66 s TRANSISTOR 2SC1623

8-729-112-65 s TRANSISTOR 2SA1462

8-729-216-22 s TRANSISTOR 2SA1162

8-729-175-73 s TRANSISTOR 2SC2757

8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162

8-729-116-64 s TRANSISTOR 2SK508-K51

8-729-175-73 s TRANSISTOR 2SC2757

0148

0222

8-729-100-66 s TRANSISTOR 2SC1623

8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162

8-729-904-04 s TRANSISTOR FMS2

Q280

Q281

0285

Q286

Q345

0346

Q350

Q360

8-729-216-22 s TRANSISTOR 2SA1162

8-729-112-65 s TRANSISTOR 2SA1462

8-729-216-22 s TRANSISTOR 2SA1162

8-729-175-73 s TRANSISTOR 2SC2757

(SD-19 BOARD)

Ref. No. or Q'ty Part No. SP Description **RV89** 1-237-031-11 s RES, ADJ, METAL 200 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-039-11 s RES, ADJ, METAL 100K **RV90 RV91 RV92** 1-237-039-11 s RES, ADJ, METAL 100K **RV93 RV94** 1-237-039-11 s RES, ADJ, METAL 100K 1-237-039-11 s RES, ADJ, METAL 100K **RV95** 1-237-039-11 s RES, ADJ, METAL 100K 1-237-037-11 s RES, ADJ, METAL 20K RV96 RV97 **RV98** 1-237-039-11 s RES, ADJ, METAL 100K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-039-11 s RES, ADJ, METAL 100K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-039-11 s RES, ADJ, METAL 100K **RV99 RV100** RV101 RV102 **RV103** 1-237-039-11 s RES, ADJ, METAL 100K RV104 1-237-039-11 s RES, ADJ, METAL 100K RV105 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-039-11 s RES, ADJ, METAL 100K **RV106 RV109** 1-237-039-11 s RES, ADJ, METAL 100K RV110 1-237-039-11 s RES, ADJ, METAL 100K 1-237-039-11 s RES, ADJ, METAL 100K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-036-11 s RES, ADJ, METAL 10K RV111 **RV112** RV113 **RV114 RV115** 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-036-11 s RES, ADJ, METAL 10K **RV116** RV117 RV118 1-237-037-11 s RES, ADJ, METAL 20K RV119 **RV125** 1-237-039-11 s RES, ADJ, METAL 100K RV126 1-237-037-11 s RES, ADJ, METAL 20K 1-237-034-11 s RES, ADJ, METAL 2K 1-237-034-11 s RES, ADJ, METAL 2K 1-237-033-11 s RES, ADJ, METAL 1K **RV130** RV131 RV132 RV133 1-237-032-11 s RES, ADJ, METAL 500 **RV134** 1-237-035-11 s RES, ADJ, METAL 5K 1-554-399-00 s SWITCH, TOGGLE 1-554-399-00 s SWITCH, TOGGLE 1-554-896-21 s SWITCH, SLIDE 1-570-602-11 s SWITCH, DIP 2-CKT 1-570-602-11 s SWITCH, DIP 2-CKT **S4 S5 S6 S7 S8** 1-570-602-11 s SWITCH, DIP 2-CKT 1-570-373-12 s SWITCH, SLIDE 1-570-373-12 s SWITCH, SLIDE **S9 S10**

SD-20 BOARD

3U-2U DU!	IKD .	
Ref. No. or Q'ty	Part No. SP Description	
1pc	A-6257-250-A O MOUNTED CIRCUIT BOARD, SD-20 (P 1-563-521-11 O CONNECTOR, 20P, FEMALE 2-139-140-01 O PLATE, SHIELD 2-182-909-01 O LEVER, PC BOARD 3-621-124-00 O SPACER)
1pc 2pcs 3pcs	7-626-320-11 o PIN, SPRING 3X8 7-682-947-01 s SCREW +PSW 3X6 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S	
C2 C3 C5 C7 C11	1-124-589-11 s ELECT 47uF 20% 16V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	
C20 C22 C24 C27 C30	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	
C36 C38 C40 C42 C48	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	
C57 C62 C63 C64 C66	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-107-085-00 s MICA 100PF 5% 50V 1-107-085-00 s MICA 100PF 5% 50V 1-131-374-00 s TANTALUM 33uF 10% 16V	
C67 C68 C69 C70 C71	1-131-374-00 s TANTALUM 33uF 10% 16V 1-131-374-00 s TANTALUM 33uF 10% 16V	
C72 C73 C74 C75 C77	1-131-374-00 s TANTALUM 33uF 10% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-126-157-11 s ELECT 10uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	
C80 C83 C85 C86 C87	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-107-202-00 s MICA 10PF 5% 500V 1-107-085-00 s MICA 100PF 5% 50V	
C88 C95 C97 C99 C102	1-107-209-00 s MICA 20PF 5% 500V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	
C104 C106 C107 C111 C116	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-107-209-00 s MICA 20PF 5% 500V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	
C117 C120 C301 C303 C305	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
C819 C820 C822 C825 C826	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-164-232-11 s CERANIC 0.01uF 10% 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	DL601 DL602 DL603 DL604	1-415-339-00 s DELAY LINE 300nS 1-415-168-00 s DELAY LINE 200ns 1-415-339-00 s DELAY LINE 300nS 1-415-339-00 s DELAY LINE 300nS
C830 C831 C834 C837 C839	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-109-539-00 s MICA 150PF 5% 100V	FL500 FL501 FL502 FL503 FL504	1-235-584-11 s FILTER, LOW PASS 1-235-786-11 s FILTER, LOW PASS 3MHz 1-235-584-11 s FILTER, LOW PASS 1-235-584-11 s FILTER, LOW PASS 1-235-181-00 s FILTER, BANDPASS 4.43MHz
C845 C846	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-107-036-00 s MICA 68PF 5% 500V	FL700 FL701 FL801 FL802	1-235-584-11 s FILTER, LOW PASS 1-235-181-00 s FILTER, BANDPASS 4.43MHz 1-235-181-00 s FILTER, BANDPASS 4.43MHz 1-235-181-00 s FILTER, BANDPASS 4.43MHz
C849 C855 C862 C867	1-107-202-00 s MICA 10PF 5% 500V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-135-164-21 s TANTAL 22uF 10% 16V	IC1 IC2 IC3 IC4 IC5	8-759-702-07 s IC NJM13700M 8-741-100-42 s IC SBX1594-01 8-759-908-17 s IC TL082CPS 8-759-908-17 s IC TL082CPS 8-759-984-88 s IC LM6361M
C870 C871 C873 C874	1-107-085-00 s MICA 100PF 5% 50V 1-107-209-00 s MICA 20PF 5% 500V 1-107-202-00 s MICA 10PF 5% 500V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-135-164-21 s TANTAL 22uF 10% 16V 1-109-542-00 s MICA 220PF 5% 100V 1-109-555-00 s MICA 560PF 5% 50V 1-107-085-00 s MICA 100PF 5% 50V 1-107-085-00 s MICA 100PF 5% 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-107-210-00 s MICA 22PF 5% 500V 1-107-202-00 s MICA 22PF 5% 500V	IC6 IC7 IC8 IC9	8-759-984-88 s IC LM6361M 8-759-009-07 s IC MC14053BF 8-759-984-88 s IC LM6361M 8-759-908-17 s IC TL082CPS
C876 C880 C881 C882	1-135-159-21 s TANTALUM, CHIP 104F 10% 20V 1-107-210-00 s MICA 22PF 5% 500V 1-107-202-00 s MICA 10PF 5% 500V 1-107-210-00 s MICA 22PF 5% 500V	IC10 IC11 IC12 IC13	8-759-908-17 s IC TL082CPS 8-759-009-07 s IC MC14053BF 8-759-948-01 s IC 74F04SJ 8-759-200-75 s IC TC4049BF
CN1 CN2	1-506-747-11 s CONNECTOR, DIN 64P, MALE 1-506-747-11 s CONNECTOR, DIN 64P, MALE		8-759-141-65 s IC UPD6951C 8-759-926-28 s IC SN74HC174NS 8-752-322-72 s IC CXK1202S
D1 D2 D3 D4 D5	8-719-800-76 s DIODE 1SS226 8-719-109-75 s DIODE RD4.3ES-B2 8-719-109-81 s DIODE RD4.7ES-B2 8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837	IC16 IC17 IC18 IC19 IC20	8-752-322-72 S IC CXK1202S 8-752-322-72 S IC CXK1202S 8-752-322-72 S IC CXK1202S 8-752-322-72 S IC CXK1202S 8-752-322-72 S IC CXK1202S
D6 D7 D8 D9	8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837	IC21 IC22 IC23 IC24 IC25	8-759-009-12 s IC MC14071BF 8-759-982-21 s IC RC78L05A 8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF
D500 D501 D502 D503 D504		IC26 IC27 IC28 IC29 IC30	8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF
D505 D506 D700 D801 D802	8-719-800-70 S BIODE 133220 8-719-109-93 S DIODE RD6.2ES-B2 8-719-800-76 S DIODE 1S5226 8-719-100-03 S DIODE 152835 8-719-100-03 S DIODE 152835	IC31 IC32 IC33 IC34 IC35	8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF 8-759-984-88 s IC LM6361M 8-759-984-88 s IC LM6361M 8-759-009-07 s IC MC14053BF
D803 D804 D805	8-719-100-03 s DIODE 152835 8-719-100-03 s DIODE 152835 8-719-800-76 s DIODE 155226	IC36 IC37 IC38 IC39 IC40	8-759-982-21 s IC RC78L05A 8-759-982-20 s IC RC78L02A 8-759-984-88 s IC LM6361M 8-759-702-07 s IC NJM13700M 8-759-906-54 s IC TL064CNS
DL1 DL2 DL3 DL4 DL5	1-415-583-11 s DELAY LINE 1-415-583-11 s DELAY LINE 1-415-583-11 s DELAY LINE 1-415-583-11 s DELAY LINE 1-415-583-11 s DELAY LINE	IC301 IC302 IC303 IC304	8-759-702-07 s IC NJM13700M 8-759-602-06 s IC M5109P 8-759-602-06 s IC M5109P 8-759-908-17 s IC TL082CPS
DL6	1-415-583-11 s DELAY LINE	IC305	8-759-009-07 s IC MC14053BF

(SD-20 BOARD)

(3D-EV DOIND)	(65 116 56,115)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
IC306 8-759-702-07 s IC NJM13700M IC307 8-759-602-06 s IC M5109P IC308 8-759-702-07 s IC NJM13700M IC309 8-759-602-06 s IC M5109P IC310 8-759-982-44 s IC RC79L05A	JR802 1-216-295-00 s METAL, CHIP 0-0HM JR803 1-216-295-00 s METAL, CHIP 0-0HM JR804 1-216-295-00 s METAL, CHIP 0-0HM JR805 1-216-295-00 s METAL, CHIP 0-0HM JR806 1-216-295-00 s METAL, CHIP 0-0HM
IC311 8-759-908-17 s IC TL082CPS IC500 8-759-209-20 s IC TC4584BF IC501 8-759-009-07 s IC MC14053BF IC502 8-759-908-17 s IC TL082CPS IC503 8-759-908-17 s IC TL082CPS	JR807 1-216-295-00 s METAL, CHIP 0-0HM JR808 1-216-295-00 s METAL, CHIP 0-0HM JR809 1-216-295-00 s METAL, CHIP 0-0HM JR811 1-216-295-00 s METAL, CHIP 0-0HM JR812 1-216-295-00 s METAL, CHIP 0-0HM
IC504 8-759-908-17 s IC TL082CPS IC505 8-759-602-06 s IC M5109P IC506 8-759-602-06 s IC M5109P IC507 8-759-906-59 s IC CX22017 IC601 8-759-014-96 s IC MC1496P	JR813 1-216-295-00 s METAL, CHIP 0-0HM JR814 1-216-295-00 s METAL, CHIP 0-0HM JR815 1-216-295-00 s METAL, CHIP 0-0HM L500 1-410-711-31 s INDUCTOR CHIP 33UH
IC602 8-759-014-96 s IC MC1496P IC603 8-759-908-17 s IC TL082CPS	L502 1-410-714-31 S INDUCTOR CHIP 56UH L701 1-410-711-31 S INDUCTOR CHIP 33UH
IC604 8-759-908-17 s IC TL082CPS IC605 8-759-908-17 s IC TL082CPS IC609 8-759-984-88 s IC LM6361M IC700 8-759-114-06 s IC UPC814G2-1	Q1 8-729-100-66 s TRANSISTOR 2SC1623 Q2 8-729-112-65 s TRANSISTOR 2SA1462 Q3 8-729-216-22 s TRANSISTOR 2SA1162 Q4 8-729-100-66 s TRANSISTOR 2SC1623 Q5 8-729-112-65 s TRANSISTOR 2SA1462
IC702 8-749-900-77 s IC BX-1333L IC703 8-759-906-59 s IC CX22017	Q6 8-729-216-22 s TRANSISTOR 2SA1162 Q7 8-729-116-64 s TRANSISTOR 2SK508-K51
IC705 8-759-982-44 s IC RC79L05A	Q8 8-729-216-22 s TRANSISTOR 2SA1162 Q9 8-729-100-66 s TRANSISTOR 2SC1623 Q10 8-729-100-66 s TRANSISTOR 2SC1623
IC802 8-759-101-12 s IC UPC311G2 IC803 8-759-908-39 s IC CX7998 IC804 8-741-129-10 s IC BX-1291	011 8-729-216-22 s TRANSISTOR 2SA1162 012 8-729-216-22 s TRANSISTOR 2SA1162 013 8-729-100-66 s TRANSISTOR 2SC1623 014 8-729-112-65 s TRANSISTOR 2SA1462
IC805 8-757-930-11 s IC CX7930A IC806 8-759-206-28 s IC TC74HC123F IC807 8-759-201-60 s IC TC40H002F	Q15 8-729-112-65 s TRANSISTOR 2SA1462 Q16 8-729-112-65 s TRANSISTOR 2SA1462
1C807 6-759-201-80 5 1C TC404082F 1C808 8-759-948-28 s IC SM5828P 1C809 8-759-948-28 s IC SM5828P IC810 8-759-200-79 s IC TC40498F	Q17 8-729-112-65 s TRANSISTOR 2SA1462 Q18 8-729-175-73 s TRANSISTOR 2SC2757 Q19 8-729-175-73 s TRANSISTOR 2SC2757 Q20 8-729-175-73 s TRANSISTOR 2SC2757
IC811 8-741-133-91 s IC BX-1339A IC812 8-741-133-91 s IC BX-1339A IC813 8-759-011-65 s IC MC74HC4053F IC814 8-759-045-57 s IC MC14557BCP	Q21 8-729-100-66 s TRANSISTOR 2SC1623 Q22 8-729-116-64 s TRANSISTOR 2SK508-K51 Q23 8-729-216-22 s TRANSISTOR 2SA1162
IC815 8-759-008-45 s IC MC74HC4538F IC816 8-759-201-53 s IC TC40H000F IC817 8-759-008-79 s IC MC14011BF	Q24 8-729-216-22 s TRANSISTOR 2SA1162 Q25 8-729-100-66 s TRANSISTOR 2SC1623 Q26 8-729-100-66 s TRANSISTOR 2SC1623
IC818 8-759-200-79 s IC TC4049BF IC819 8-759-205-37 s IC SN74HC574NS IC820 8-759-205-37 s IC SN74HC574NS	Q27 8-729-100-66 s TRANSISTOR 2SC1623 Q28 8-729-100-66 s TRANSISTOR 2SC1623 Q29 8-729-216-22 s TRANSISTOR 2SA1162 Q30 8-729-216-22 s TRANSISTOR 2SA1162
IC821 8-759-008-45 s IC MC74HC4538F IC822 8-759-982-31 s IC RC78M05FA	Q31 8-729-100-66 s TRANSISTOR 2SC1623 Q32 8-729-100-66 s TRANSISTOR 2SC1623
JR1 1-216-295-00 s METAL, CHIP 0-0HM JR2 1-216-295-00 s METAL, CHIP 0-0HM JR3 1-216-295-00 s METAL, CHIP 0-0HM JR4 1-216-295-00 s METAL, CHIP 0-0HM	Q33 8-729-100-66 s TRANSISTOR 2SC1623 Q34 8-729-100-66 s TRANSISTOR 2SC1623 Q35 8-729-216-22 s TRANSISTOR 2SA1162
JR5 1-216-295-00 s METAL, CHIP 0-0HM JR7 1-216-295-00 s METAL, CHIP 0-0HM JR8 1-216-295-00 s METAL, CHIP 0-0HM	Q36 8-729-100-66 s TRANSISTOR 2SC1623 Q37 8-729-216-22 s TRANSISTOR 2SA1162 Q38 8-729-100-66 s TRANSISTOR 2SC1623 Q39 8-729-216-22 s TRANSISTOR 2SA1162
JR9 1-216-295-00 s METAL, CHIP 0-0HM JR700 1-216-295-00 s METAL, CHIP 0-0HM JR801 1-216-295-00 s METAL, CHIP 0-0HM	Q40 8-729-100-66 s TRANSISTOR 2SC1623 Q41 8-729-216-22 s TRANSISTOR 2SA1162 Q42 8-729-100-66 s TRANSISTOR 2SC1623

(SD-20 BOARD)		(SD-20 BOARD)	
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
Q43	8-729-216-22 s TRANSISTOR 2SA1162	Q102	8-729-175-73 s TRANSISTOR 2SC2757
Q44	8-729-100-66 s TRANSISTOR 2SC1623	Q103	8-729-175-73 s TRANSISTOR 2SC2757
Q45	8-729-216-22 s TRANSISTOR 2SA1162	Q105	8-729-100-66 s TRANSISTOR 2SC1623
Q46	8-729-100-66 s TRANSISTOR 2SC1623	Q301	8-729-100-66 s TRANSISTOR 2SC1623
Q47	8-729-216-22 s TRANSISTOR 2SA1162	Q302	8-729-112-65 s TRANSISTOR 2SA1462
Q48	8-729-100-66 s TRANSISTOR 2SC1623	Q303	8-729-216-22 s TRANSISTOR 2SA1162
Q49	8-729-100-66 s TRANSISTOR 2SC1623	Q304	8-729-100-66 s TRANSISTOR 2SC1623
Q50	8-729-100-66 s TRANSISTOR 2SC1623	Q305	8-729-112-65 s TRANSISTOR 2SA1462
Q51	8-729-100-66 s TRANSISTOR 2SC1623	Q306	8-729-216-22 s TRANSISTOR 2SA1162
Q52	8-729-100-66 s TRANSISTOR 2SC1623	Q307	8-729-116-64 s TRANSISTOR 2SK508-K51
Q53	8-729-100-66 s TRANSISTOR 2SC1623	Q308	8-729-216-22 s TRANSISTOR 2SA1162
Q54	8-729-100-66 s TRANSISTOR 2SC1623	Q309	8-729-100-66 s TRANSISTOR 2SC1623
Q55	8-729-216-22 s TRANSISTOR 2SA1162	Q310	8-729-216-22 s TRANSISTOR 2SA1162
Q56	8-729-100-66 s TRANSISTOR 2SC1623	Q311	8-729-116-64 s TRANSISTOR 2SK508-K51
Q57	8-729-100-66 s TRANSISTOR 2SC1623	Q312	8-729-100-66 s TRANSISTOR 2SC1623
Q58	8-729-100-66 s TRANSISTOR 2SC1623	Q313	8-729-100-66 s TRANSISTOR 2SC1623
Q59	8-729-216-22 s TRANSISTOR 2SA1162	Q314	8-729-112-65 s TRANSISTOR 2SA1462
Q60	8-729-100-66 s TRANSISTOR 2SC1623	Q315	8-729-216-22 s TRANSISTOR 2SA1162
Q61	8-729-100-66 s TRANSISTOR 2SC1623	Q316	8-729-100-66 s TRANSISTOR 2SC1623
Q62	8-729-100-66 s TRANSISTOR 2SC1623	Q317	8-729-112-65 s TRANSISTOR 2SA1462
Q63	8-729-216-22 s TRANSISTOR 2SA1162	Q318	8-729-216-22 s TRANSISTOR 2SA1162
Q64	8-729-100-66 s TRANSISTOR 2SC1623	Q319	8-729-116-64 s TRANSISTOR 2SK508-K51
Q65	8-729-216-22 s TRANSISTOR 2SA1162	Q320	8-729-216-22 s TRANSISTOR 2SA1162
Q66	8-729-100-66 s TRANSISTOR 2SC1623	Q321	8-729-100-66 s TRANSISTOR 2SC1623
Q67	8-729-100-66 s TRANSISTOR 2SC1623	Q322	8-729-100-66 s TRANSISTOR 2SC1623
Q68	8-729-100-66 s TRANSISTOR 2SC1623	Q323	8-729-112-65 s TRANSISTOR 2SA1462
Q69	8-729-216-22 s TRANSISTOR 2SA1162	Q324	8-729-216-22 s TRANSISTOR 2SA1162
Q70	8-729-100-66 s TRANSISTOR 2SC1623	Q325	8-729-100-66 s TRANSISTOR 2SC1623
Q71	8-729-100-66 s TRANSISTOR 2SC1623	Q326	8-729-112-65 s TRANSISTOR 2SA1462
Q72	8-729-100-66 s TRANSISTOR 2SC1623	Q327	8-729-216-22 s TRANSISTOR 2SA1162
Q73	8-729-216-22 s TRANSISTOR 2SA1162	Q328	8-729-116-64 s TRANSISTOR 2SK508-K51
Q74	8-729-100-66 s TRANSISTOR 2SC1623	Q329	8-729-216-22 s TRANSISTOR 2SA1162
Q75	8-729-100-66 s TRANSISTOR 2SC1623	Q330	8-729-100-66 s TRANSISTOR 2SC1623
Q76	8-729-100-66 s TRANSISTOR 2SC1623	Q331	8-729-216-22 s TRANSISTOR 2SA1162
Q77	8-729-100-66 s TRANSISTOR 2SC1623	Q500	8-729-100-66 s TRANSISTOR 2SC1623
Q78	8-729-100-66 s TRANSISTOR 2SC1623	Q501	8-729-100-66 s TRANSISTOR 2SC1623
Q79	8-729-216-22 s TRANSISTOR 2SA1162	Q502	8-729-216-22 s TRANSISTOR 2SA1162
Q80	8-729-216-22 s TRANSISTOR 2SA1162	Q503	8-729-216-22 s TRANSISTOR 2SA1162
Q81	8-729-216-22 s TRANSISTOR 2SA1162	Q504	8-729-100-66 s TRANSISTOR 2SC1623
Q82	8-729-100-66 s TRANSISTOR 2SC1623	Q506	8-729-216-22 s TRANSISTOR 2SA1162
Q83	8-729-100-66 s TRANSISTOR 2SC1623	Q507	8-729-216-22 s TRANSISTOR 2SA1162
Q84	8-729-100-66 s TRANSISTOR 2SC1623	Q508	8-729-216-22 s TRANSISTOR 2SA1162
Q85	8-729-216-22 s TRANSISTOR 2SA1162	Q509	8-729-216-22 s TRANSISTOR 2SA1162
Q86	8-729-216-22 s TRANSISTOR 2SA1162	Q510	8-729-100-66 s TRANSISTOR 2SC1623
Q87	8-729-100-66 s TRANSISTOR 2SC1623	Q512	8-729-100-66 s TRANSISTOR 2SC1623
Q88	8-729-100-66 s TRANSISTOR 2SC1623	Q513	8-729-100-66 s TRANSISTOR 2SC1623
Q89	8-729-216-22 s TRANSISTOR 2SA1162	Q514	8-729-175-73 s TRANSISTOR 2SC2757
Q90	8-729-216-22 s TRANSISTOR 2SA1162	Q515	8-729-175-73 s TRANSISTOR 2SC2757
Q91	8-729-116-64 s TRANSISTOR 2SK508-K51	Q516	8-729-175-73 s TRANSISTOR 2SC2757
Q92	8-729-216-22 s TRANSISTOR 2SA1162	Q517	8-729-100-66 s TRANSISTOR 2SC1623
Q93	8-729-100-66 s TRANSISTOR 2SC1623	0518	8-729-175-73 s TRANSISTOR 2SC2757
Q94	8-729-100-66 s TRANSISTOR 2SC1623	0519	8-729-175-73 s TRANSISTOR 2SC2757
Q95	8-729-216-22 s TRANSISTOR 2SA1162	0520	8-729-175-73 s TRANSISTOR 2SC2757
Q96	8-729-216-22 s TRANSISTOR 2SA1162	0521	8-729-100-66 s TRANSISTOR 2SC1623
Q97	8-729-100-66 s TRANSISTOR 2SC1623	0522	8-729-100-66 s TRANSISTOR 2SC1623
Q98	8-729-116-64 s TRANSISTOR 2SK508-K51	Q523	8-729-175-73 s TRANSISTOR 2SC2757
Q99	8-729-216-22 s TRANSISTOR 2SA1162	Q524	8-729-100-66 s TRANSISTOR 2SC1623
Q100	8-729-112-65 s TRANSISTOR 2SA1462	Q525	8-729-175-73 s TRANSISTOR 2SC2757
Q101	8-729-112-65 s TRANSISTOR 2SA1462	Q526	8-729-100-66 s TRANSISTOR 2SC1623

(SD-20 BC	DARD)	(SD-20 BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
Q527 Q528 Q529 Q530 Q531	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	Q716 8-729-216-22 s TRANSISTOR 2SA1162 Q717 8-729-216-22 s TRANSISTOR 2SA1162 Q718 8-729-100-66 s TRANSISTOR 2SC1623 Q719 8-729-216-22 s TRANSISTOR 2SA1162 Q720 8-729-100-66 s TRANSISTOR 2SC1623
Q532 Q533 Q534 Q535 Q536	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	Q721 8-729-175-73 s TRANSISTOR 2SC2757 Q722 8-729-175-73 s TRANSISTOR 2SC2757 Q723 8-729-175-73 s TRANSISTOR 2SC2757 Q724 8-729-175-73 s TRANSISTOR 2SC2757 Q725 8-729-175-73 s TRANSISTOR 2SC2757
Q537 Q538 Q539 Q540 Q541	8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162	0726 8-729-100-66 s TRANSISTOR 2SC1623 0727 8-729-216-22 s TRANSISTOR 2SA1162 0728 8-729-100-66 s TRANSISTOR 2SC1623 0729 8-729-216-22 s TRANSISTOR 2SA1162 0730 8-729-100-66 s TRANSISTOR 2SC1623
Q542 Q543 Q544 Q545 Q546	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	0801 8-729-100-66 s TRANSISTOR 2SC1623 0802 8-729-109-43 s TRANSISTOR 2SK94-X3 0803 8-729-100-66 s TRANSISTOR 2SC1623 0804 8-729-100-66 s TRANSISTOR 2SC1623 0805 8-729-100-66 s TRANSISTOR 2SC1623
Q601 Q602 Q603 Q604 Q605	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	Q806 8-729-100-66 s TRANSISTOR 2SC1623 Q807 8-729-100-66 s TRANSISTOR 2SC1623 Q808 8-729-100-66 s TRANSISTOR 2SC1623 Q809 8-729-100-66 s TRANSISTOR 2SC1623 Q810 8-729-216-22 s TRANSISTOR 2SA1162
Q606 Q607 Q608 Q609 Q610	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	Q811 8-729-109-43 s TRANSISTOR 2SK94-X3 Q812 8-729-216-22 s TRANSISTOR 2SA1162 Q813 8-729-100-66 s TRANSISTOR 2SC1623 Q815 8-729-175-73 s TRANSISTOR 2SC2757 Q816 8-729-112-65 s TRANSISTOR 2SA1462
0611 0612 0613	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	Q817 8-729-175-73 s TRANSISTOR 2SC2757 Q818 8-729-112-65 s TRANSISTOR 2SA1462
Q617 Q618 Q619	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	R29 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W R549 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W R562 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W R622 1-214-503-00 s METAL 3.32K 0.50% 1/4W
Q620 Q621 Q622 Q630	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623	R623 1-214-499-00 s METAL 1.62K 0.50% 1/4W R624 1-214-504-00 s METAL 9.09K 0.50% 1/4W R763 1-216-309-00 s METAL 5.6 5% 1/10W
0631 0632 0633	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	R764 1-216-309-00 s METAL 5.6 5% 1/10W R802 1-216-121-00 s METAL, CHIP 1M 5% 1/10W R808 1-216-121-00 s METAL, CHIP 1M 5% 1/10W R809 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
0700 0701	8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	RB1 1-235-948-11 s NETWORK, RESISTOR
Q702 Q703 Q704 Q705 Q706	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757	RB2 1-235-948-11 s NETWORK, RESISTOR RB3 1-235-948-11 s NETWORK, RESISTOR RB4 1-235-948-11 s NETWORK, RESISTOR RB5 1-235-948-11 s NETWORK, RESISTOR
0707 0708 0709 0710	8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	R86 1-235-948-11 s NETWORK, RESISTOR RV1 1-237-039-11 s RES, ADJ, METAL 100K RV2 1-237-033-11 s RES, ADJ, METAL 1K RV3 1-237-032-11 s RES, ADJ, METAL 500 RV4 1-237-039-11 s RES, ADJ, METAL 100K
Q711 Q712 Q713	8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623	RV5 1-237-037-11 s RES, ADJ, METAL 20K RV6 1-237-037-11 s RES, ADJ, METAL 20K
0714 0715	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623	RV7 1-237-032-11 s RES, ADJ, METAL 500 RV8 1-237-032-11 s RES, ADJ, METAL 500

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Ref. No. or Q'ty Part No. SP Description RV9 1-237-037-11 s RES, ADJ, METAL 20K 1-237-036-11 s RES, ADJ, METAL 10K 1-237-038-11 s RES, ADJ, METAL 50K 1-237-039-11 s RES, ADJ, METAL 100K RV10 **RV11** RV12 1-237-036-11 s RES, ADJ, METAL 10K **RV13 RV14** 1-237-034-11 s RES, ADJ, METAL 2K 1-237-037-11 s RES, ADJ, METAL 20K **RV15** 1-237-035-11 s RES, ADJ, METAL 5K 1-237-034-11 s RES, ADJ, METAL 2K 1-237-039-11 s RES, ADJ, METAL 100K **RV16 RV17 RV18** 1-237-034-11 s RES, ADJ, METAL 2K 1-237-032-11 s RES, ADJ, METAL 500 **RV19 RV20** 1-237-035-11 s RES, ADJ, METAL 5K 1-237-037-11 s RES, ADJ, METAL 20K RV21 RV22 **RV23** 1-237-032-11 s RES, ADJ, METAL 500 RV24 1-237-033-11 s RES, ADJ, METAL 1K 1-237-037-11 s RES, ADJ, METAL 20K **RV25** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-032-11 s RES, ADJ, METAL 500 RV301 RV302 1-237-032-11 s RES, ADJ, METAL 500 RV303 1-237-032-11 s RES, ADJ, METAL 500 1-237-033-11 s RES, ADJ, METAL 1K **RV304 RV305** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-500-21 s RES, ADJ, METAL 1K 1-237-032-11 s RES, ADJ, METAL 500 RV306 **RV307** RV308 RV309 1-237-033-11 s RES, ADJ, METAL 1K 1-237-032-11 s RES, ADJ, METAL 500 **RV310** 1-237-033-11 s RES, ADJ, METAL 1K RV311 1-237-032-11 s RES, ADJ, METAL 500 RV312 **RV313** 1-237-032-11 s RES, ADJ, METAL 500 **RV314** 1-237-032-11 s RES, ADJ, METAL 500 1-237-034-11 s RES, ADJ, METAL 2K **RV500** 1-237-036-11 s RES, ADJ, METAL 10K 1-237-037-11 s RES, ADJ, METAL 20K RV501 RV502 RV503 1-237-036-11 s RES, ADJ, METAL 10K 1-237-036-11 s RES, ADJ, METAL 10K 1-237-036-11 s RES, ADJ, METAL 10K 1-237-037-11 s RES, ADJ, METAL 20K RV504 RV505 RV506 1-237-033-11 s RES, ADJ, METAL 1K 1-237-035-11 s RES, ADJ, METAL 5K RV507 **RV508 RV509** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-035-11 s RES, ADJ, METAL 5K 1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K RV510 **RV511 RV512** 1-237-035-11 s RES. ADJ. METAL 5K **RV513** 1-237-035-11 s RES, ADJ, METAL 5K RV514 1-237-032-11 s RES, ADJ, METAL 500 **RV515** 1-237-032-11 s RES, ADJ, METAL 500 1-237-032-11 s RES, ADJ, METAL 500 **RV516 RV517** 1-237-035-11 s RES, ADJ, METAL 5K RV601 RV602 1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K RV603 RV604 1-237-034-11 s RES, ADJ, METAL 2K 1-237-034-11 s RES, ADJ, METAL 2K **RV609 RV700** 1-237-035-11 s RES, ADJ, METAL 5K **RV701** 1-237-037-11 s RES, ADJ, METAL 20K **RV702** 1-237-037-11 s RES, ADJ, METAL 20K 1-237-034-11 s RES, ADJ, METAL 2K **RV703** RV704

(SD-20 BOARD)

Ref. No.	
or 0'tv	Part No. SP Description
J. 4 J	
RV705	1-237-032-11 s RES, ADJ, METAL 500
RV706	1-237-035-11 s RES, ADJ, METAL 5K
	1-237-035-11 s RES. ADJ, METAL 5K
RV707	1-23/-U33-11 5 KE3, AUJ, METAL OR
RV708	1-237-032-11 s RES, ADJ, METAL 500
RV709	1-237-514-21 s RES, ADJ, METAL 500
RV801	1-237-035-11 s RES, ADJ, METAL 5K
RV802	1-237-503-21 s RES, ADJ, METAL 10K
RV803	1-237-503-21 s RES, ADJ, METAL 10K
	1-237-036-11 s RES, ADJ, METAL 10K
RV805	1-237-037-11 s RES. ADJ. METAL 20K
KVOUS	1-23/-03/-11 5 KLS, ADS, METAL ZON
DUGGC	1 027 025 11 - 05C 401 WETAL EV
RV806	1-237-035-11 s RES, ADJ, METAL 5K
RV807	1-237-037-11 s RES, ADJ, METAL 20K
RV808	1-237-037-11 s RES, ADJ, METAL 20K
RV809	1-237-501-21 s RES, ADJ, METAL 2K
RV810	1-230-997-11 s RES. VAR. CARBON 20K/20K
DVR11	1-237-037-11 s RES, ADJ, METAL 20K
RV812	1-237-036-11 s RES. ADJ. METAL 10K
	• • •
0500	1-570-602-11 s SWITCH, DIP 2-CKT 1-516-925-21 s SWITCH, DIP 8-CKT
S500	1-5/U-002-11 S SWITCH, DIP 2-CKI
S602	
S603	1-516-924-21 s SWITCH, DIP
S604	1-554-399-00 s SWITCH, TOGGLE
	•
S801	1-554-399-00 s SWITCH, TOGGLE
S802	1-570-373-12 s SWITCH, SLIDE
	A STA AGG 44 GUITTOU GUITE
2002	1 FEO OFO ON - CHITCH DICITAL
S804	1-570-086-11 s SWITCH, SLIDE 1-553-252-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL
2802	1-554-027-00 s SWITCH, DIGITAL
	· ·
S810	1-554-399-00 s SWITCH, TOGGLE
TH800	1-800-071-XX s TH DIRECT-HEATING DISK S-300
TH801	1-800-071-XX s TH DIRECT-HEATING DISK S-300
	1 000 071 777 5 777 DIRECT MERITING DIGIT OF DOC
VC0801	1-567-112-00 s OSCILLATOR, CRYSTAL
VC0801	1-567-086-00 s OSCILLATOR, CRYSTAL
V CUOUZ	1-30/-000-00 S OSCILLATOR, CRISTAL

SY-138 B		(SY-138	BOARD)
		Ref. No.	
Ref. No. or Q'ty	Part No. SP Description	or Q'ty	Part No. SP Description
1pc	A-6259-371-A o MOUNTED CIRCUIT BOARD, SY-138 (P)	C73	1-162-638-11 s CERAMIC, CHIP 1uF 16V
1pc	2-139-140-01 o PLATE, SHIFLD	C74	1-162-638-11 s CERAMIC, CHIP 1uF 16V
2pcs	2-182-909-01 o LEVER, PC BOARD	C76	1-162-638-11 s CERAMIC, CHIP 1uF 16V
	7-626-320-11 o PIN, SPRING 3X8	C78 C80	1-162-638-11 s CERAMIC, CHIP 1uF 16V
1pc	7-682-947-01 s SCREW +PSW 3X6	180	1-162-638-11 s CERAMIC, CHIP 1uF 16V
6pcs	7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S	C82	1-162-638-11 s CERAMIC, CHIP 1uF 16V
	7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S	C86	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C1	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C89 C93	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C2	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C95	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C3 C4	1 10F AA7 11 - DOUDLE LAVEDS 1EADAD E EV		1-102-030-11 S CLAMITE, CHIF 101 109
C5	1-125-447-11 S DUBLE LATERS TRAND 3.5V 1-164-232-11 S CERAMIC 0.01uF 10% 50V 1-126-157-11 S ELECT 10uF 20% 16V 1-126-157-11 S ELECT 10uF 20% 16V 1-126-157-11 S ELECT 10uF 20% 16V	C97	1-162-638-11 s CERAMIC, CHIP 1uF 16V
		C99	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C6	1-126-157-11 s ELECT 10uF 20% 16V	C101	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C7 C10	1-104-232-II S CERAMIC U.UIUF 10% 5UV	C105	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C10			1-102-030-11 3 CLIMATO, CITE TO
C16	1-126-157-11 s ELECT 10uF 20% 16V 1-126-157-11 s ELECT 10uF 20% 16V 1-126-157-11 s ELECT 10uF 20% 16V	C107	1-162-638-11 s CERAMIC, CHIP 1uF 16V
	· · · · · · · · · · · · · · · · · · ·	C109	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C17	1-126-157-11 s ELECT 10uF 20% 16V	C111	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C20 C21	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C114	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C22	1-164-232-11 s CERAMIC 0.01uF 10% 50V		1 101 000 11 0 01101110, 0111. 101
C23	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C115	1-162-638-11 s CERAMIC, CHIP 1uF 16V
	4 464 600 44 - 05DANTO 0 01-5 100 50N	C116	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C24 C25	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C116 C117 C118	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C26	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C119	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C27	1-164-232-11 s CERAMIC 0.01uF 10% 50V		
C28	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C120 C121	1-162-638-11 s CERAMIC, CHIP 1uF 16V
000	1 104 020 11 - CEDANTO O 01-E 100 EON	C121	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C29 C30	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C123	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C31	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C124	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C32	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C125 C126 C127	
C33	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C125	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C34	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C127	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C35	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	C128	1-162-638-11 s CERAMIC. CHIP 1uF 16V
C36	1-124-478-11 s ELECT 100uF 20% 25V	C129	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C37	1-164-232-11 s CERAMIC 0.01uF 10% 50V		4 440 600 44 OFFILIA OUT 4 F 46W
C38	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C130 C131	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C39	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C132	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C40	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C133	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C41	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C134	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C42	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C12E	1-162-638-11 s CERAMIC. CHIP 1uF 16V
C43	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C135 C136	1-162-638-11 S CERAMIC, CHIP 1UF 16V
C50	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C137	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C52	1-162-638-11 s CERAMIC, CHIP 1UF 16V	C138	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C53	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C139	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C54 C55	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	C140	1-162-638-11 s CERAMIC, CHIP 1uF 16V
COO	1-102-030-11 5 CERAMIC, CHIF IN 104	C140	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C56	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C142	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C57	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C143	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C58	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	C144	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C59 C61	1-162-638-11 S CERAMIC, CHIP TUF TOV 1-162-638-11 S CERAMIC, CHIP TUF 16V	C145	1-162-638-11 s CERAMIC, CHIP 1uF 16V
001	T TOE DOO-IT S OFFICE OUR THE THE TOY	C146	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C62	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C156	1-164-232-11 s CERAMIC 0.01uF 10% 50V
C63	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C157	1-124-234-00 s ELECT 22uf 20% 16V
C65 C67	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	C158	1-126-157-11 s ELECT 10uF 20% 16V
C69	1-162-638-11 s CERAMIC, CHIP 10F 16V	C159	1-164-232-11 s CERAMIC 0.01uF 10% 50V
		C160	1-124-234-00 s ELECT 22uF 20% 16V
C70	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C161	1-126-157-11 s ELECT 10uF 20% 16V
C71	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C162	1-164-232-11 s CERAMIC 0.01uF 10% 50V

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(SY-138 BOARD)
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Ref. No. or Q'ty Part No. SP Description 1-216-023-00 s METAL, CHIP 82 5% 1/10W R214 R215 R216 R217 R218 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-023-00 s MET R219 R220 R221 R222 R223 1-216-023-00 s METAL, CHIP 82 5% 1/10W R224 R225 R226 R227 R228 1-216-023-00 s METAL, CHIP 82 5% 1/10W R229 R230 R231 R232 R233 1-216-023-00 s METAL, CHIP 82 5% 1/10W R234 R235 R236 R237 1-216-023-00 s METAL, CHIP 82 5% 1/10W R238 1-216-023-00 s METAL, CHIP 82 5% 1/10W R239 R240 R241 R242 R243 R244 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-023-00 S METAL, CHIP 100K 5% 1/10W 1-216-097-00 S METAL, CHIP 100K 5% 1/10W R245 R246 R247 R248 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R249 R250 R251 R252 1-216-083-00 s METAL, CHIP 27K 5% 1/10W R253 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R254 R255 R256 **R257** R258 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-091-00 s METAL, CHIP 56K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R259 R260 R261 R262 R263 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W R264 R265 R266 R267 RV1 1-237-035-11 s RES, ADJ, METAL 5K RY9 1-515-648-11 s RELAY, POWER (DS) 1-567-796-11 s OSCILLATOR, CRYSTAL 14.7456MHz X1

(SY-138 BOARD)

Ref. No.

or Q'ty Part No. SP Description

X2 1-567-864-11 s CRYSTAL, 10.737635MHz
X3 1-567-864-11 s CRYSTAL, 10.737635MHz
X4 1-567-864-11 s CRYSTAL, 10.737635MHz
X5 1-567-864-11 s CRYSTAL, 10.737635MHz

SY-154 E		WP-27 B0	
Ref. No.		Ref. No.	
1pc	A-6268-376-A O MOUNTED CIRCUIT BOARD, SY-154 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V		A-6257-248-A o MOUNTED CIRCUIT BOARD, WP-27 (P) 2-139-140-01 o PLATE, SHIELD
C1	1_162_638_11 s CFRAMIC CHIP 1uF 16V	1pc 1pc	
C2	1-162-638-11 s CERAMIC. CHIP 1uF 16V	2pcs	3-621-124-00 o SPACER
C3	1-162-638-11 s CERAMIC, CHIP 1uF 16V	1pc	7-626-320-11 o PIN, SPRING 3X8
C4	1-164-232-11 s CERAMIC 0.01uF 10% 50V	•	·
C5	1-164-232-11 s CERAMIC 0.01uF 10% 50V	2pcs	7-682-947-01 s SCREW +PSW 3X6
00	1 1C4 020 11 - CEDANTO A 01.F 100 FOU	4pcs	7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S
C6 C7	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C2	1-124-589-11 s ELECT 47uF 20% 16V
C8	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C4	1-124-589-11 s ELECT 47uF 20% 16V
C9	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C6	1-124-589-11 s ELECT 47uF 20% 16V
C10	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C7	1-131-365-00 s TANTALUM 10uF 10% 20V
		C8	1-136-499-11 s FILM 0.047uF 5% 50V
C11	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C11	1 124 EQU 11 a ELECT 470E 20% 16V
C12	1-164-232-11 s CERAMIC 0.01uF 10% 50V	C11 C13	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V
C13	1-162-638-11 s CERAMIC, CHIP 1uF 16V	C18	1-124-589-11 s ELECT 47ul 20% 16V
CN1	1-506-493-11 s CONNECTOR, 14P, MALE	C18 C21	1-124-589-11 s ELECT 47uF 20% 16V
CN2	1-506-485-11 s CONNECTOR, 6P, MALE	C22	1-124-589-11 s ELECT 47uF 20% 16V
			4 404 F00 44 F4 F0T 47 F 004 16U
D1 -	8-719-102-51 s DIODE 1SZ51	C24	1-124-589-11 s ELECT 47uF 20% 16V
TC1	8-759-926-67 s IC SN74HC374NS	C26 C28	1-131-379-00 s TANTALUM 22uF 10% 10V 1-124-589-11 s ELECT 47uF 20% 16V
IC1 IC2	8-759-926-67 s IC SN74HC374NS	C30	1-124-589-11 s ELECT 47uF 20% 16V
IC3	8-759-926-67 s IC SN74HC374NS 8-759-926-67 s IC SN74HC374NS 8-759-926-67 s IC SN74HC374NS	C36	1-124-589-11 s ELECT 47uF 20% 16V
IC4	8-759-926-67 s IC SN74HC374NS		
IC5	8-759-103-95 s IC UPC648C	C38	1-126-157-11 s ELECT 10uF 20% 16V
***	0 7F0 102 0F - TO HDCC10C	C53	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V
IC6		C55 C57	1-124-569-11 S ELECT 474F 20% 16V 1-124-589-11 S ELECT 474F 20% 16V
IC7 IC8	8-759-906-54 s IC TL064CNS 8-759-906-54 s IC TL064CNS	C58	1-124-369-11 S ELECT 47dl 20% 10V 1-126-157-11 S ELECT 10uF 20% 16V
IC9	8-759-906-54 s IC TL064CNS	030	1-110 107 11 3 11101 1041 107 107
		C59	1-126-157-11 s ELECT 10uF 20% 16V
Q1	8-729-100-66 s TRANSISTOR 2SC1623	C60 C62	1-124-589-11 s ELECT 47uF 20% 16V
02	8-729-100-66 s TRANSISTOR 2SC1623	C62	1-124-589-11 s ELECT 47uF 20% 16V
03 04	8-729-100-66 s TRANSISTOR 2SC1623	C64 C66	1-126-157-11 s ELECT 10uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V
Q 4 Q5	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623		1-124-303-11 S LLECT 47UI 20% 104
ųσ	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	C68	1-124-589-11 s ELECT 47uF 20% 16V
Q6	8-729-100-66 s TRANSISTOR 2SC1623	C71	1-124-589-11 s ELECT 47uF 20% 16V
		C75 C76	1-124-589-11 s ELECT 47uF 20% 16V
R1	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	C/6 C80	1-124-589-11 s ELECT 47uF 20% 16V 1-131-377-00 s TANTALUM 10uF 10% 10V
R2 R3	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	COU	1-131-3//-00 2 (MAINCOM 100) 10% 104
R4	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	C82	1-131-377-00 s TANTALUM 10uF 10% 10V
R5	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	C83	1-124-589-11 s ELECT 47uF 20% 16V
		C93	1-124-589-11 s ELECT 47uF 20% 16V
R6	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	C94	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V
R7 R8	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	C101	1-174-202-11 2 EFEC! 4/ML 500 10A
R9	1-216-061-00 S METAL, CHIP 18 3% 1/10W 1-216-061-00 S METAL, CHIP 3.3K 5% 1/10W	C102	1-124-589-11 s ELECT 47uF 20% 16V
R10	1-216-047-00 s METAL, CHIP 820 5% 1/10W	C109	1-124-589-11 s ELECT 47uF 20% 16V
		C110	1-124-589-11 s ELECT 47uF 20% 16V
R11	1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W	C120	1-124-589-11 s ELECT 47uF 20% 16V
R12	1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W	C121	1-124-589-11 s ELECT 47uF 20% 16V
R13 R14	1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W	C122	1-124-589-11 s ELECT 47uF 20% 16V
R14 R15	1-216-069-00 s METAL, CHIP 5.3K 5% 1/10W	C125	1-124-589-11 s ELECT 47uF 20% 16V
,,,,,,	ver ve a manual annu annu as at asu	C126	1-107-085-00 s MICA 100PF 5% 50V
R16	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	C130	1-163-081-00 s CERAMIC, CHIP 0.22uF 25V
R17	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	C131	1-163-081-00 s CERAMIC, CHIP 0.22uF 25V
R18	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	C132	1-163-081-00 s CERAMIC, CHIP 0.22uF 25V
R19 R20	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	C132 C133	1-163-081-00 S CERAMIC, CHIP 0.22uF 25V 1-163-081-00 S CERAMIC, CHIP 0.22uF 25V
NEU	1-510-001-00 2 LIFIUE! CHIL 5.54 2.0 1/104	C638	1-107-085-00 s MICA 100PF 5% 50V
R21	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	C640	1-124-589-11 s ELECT 47uF 20% 16V
		C642	1-126-157-11 s ELECT 10uF 20% 16V
RV1	1-237-036-11 s RES, ADJ, METAL 10K	CEAS	1 162 023 00 c CEDAMIC CUID 0 022E EOV
RV2	1-237-033-11 s RES, ADJ, METAL 1K	C643	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V

(WP-27 B	OARD)	(WP-27 B	OARD)
Ref. No. or Q'ty	Part No. SP Description		Part No. SP Description
C644	1-126-157-11 s ELECT 10uF 20% 16V	IC5	8-759-939-40 s IC LM3046N
C645	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC6	8-759-984-88 s IC LM6361M
C650	1-124-589-11 s ELECT 47uF 20% 16V	IC7	8-759-984-88 s IC LM6361M
C652	1-124-589-11 s ELECT 47uF 20% 16V	IC8	8-759-984-88 s IC LM6361M
C654	1-107-085-00 s MICA 100PF 5% 50V	IC9	8-759-908-17 s IC TL082CPS
C702 C707 C714	1-131-349-00 s TANTALUM 2.2uF 10% 35V 1-124-589-11 s ELECT 47uF 20% 16V 1-131-377-00 s TANTALUM 10uF 10% 10V	IC11 IC12 IC13	8-759-114-06 s IC UPC814G2-1 8-759-114-06 s IC UPC814G2-1 8-759-114-06 s IC UPC814G2-1 8-759-009-05 s IC MC14051BF 8-759-009-05 s IC MC14051BF
CN2 CN3 CN20	1-506-747-11 s CONNECTOR, DIN 64P, MALE 1-506-747-11 s CONNECTOR, DIN 64P, MALE 1-506-694-11 o HEADER 26P	IC15 IC16	8-759-014-96 s IC MC1496P 8-759-908-17 s IC TL082CPS 8-759-114-06 s IC UPC814G2-1
CT1	1-141-260-00 s CAP, TRIMMER 50PF	IC17 IC18 IC19	8-759-114-06 s IC UPC814G2-1 8-759-009-07 s IC MC14053BF
D1	1-506-747-11 s CONNECTOR, DIN 64P, MALE 1-506-747-11 s CONNECTOR, DIN 64P, MALE 1-506-694-11 o HEADER 26P 1-141-260-00 s CAP, TRIMMER 50PF 8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837 8-719-815-59 s DIODE 1S1555-S 8-719-815-59 s DIODE 1S1555-S 8-719-100-03 s DIODE 1S2835 8-719-100-03 s DIODE 1S2835 8-719-100-03 s DIODE 1S2835	IC20	8-759-908-17 s IC TL082CPS
D2		IC21	8-759-009-07 s IC MC14053BF
D3		IC22	8-759-746-86 s IC 27C128-25
D4		IC23	8-759-250-20 s IC TC5020BP
D5		IC24	8-759-250-20 s IC TC5020BP
D6 D7 D8 D13 D14	8-719-100-03 s DIODE 1S2835 8-719-106-08 s DIODE RD6.2M-B2 8-719-100-03 s DIODE 1S2835 8-719-100-03 s DIODE 1S2835 8-719-800-76 s DIODE 1SS226	IC25 IC26 IC27 IC28	8-759-982-21 s IC RC78L05A 8-759-908-17 s IC TL082CPS 8-759-014-96 s IC MC1496P 8-759-114-06 s IC UPC814G2-1 8-759-009-07 s IC MC14053BF
D15	8-719-100-03 s DIODE 1S2835 8-719-106-08 s DIODE RD6.2M-B2 8-719-100-03 s DIODE 1S2835 8-719-100-03 s DIODE 1S2835 8-719-800-76 s DIODE 1S2226 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-100-05 s DIODE 1S2837 8-719-105-91 s DIODE RD5.6M-B2	IC30	8-759-908-17 s IC TL082CPS
D16		IC31	8-759-908-17 s IC TL082CPS
D17		IC36	8-759-908-17 s IC TL082CPS
D28		IC37	8-759-908-17 s IC TL082CPS
D601		IC38	8-759-909-07 s IC MC14053BF
D602	8-719-105-91 s DIODE RD5.6M-B2	IC39	8-759-908-17 s IC TL082CPS
D603	8-719-105-91 s DIODE RD5.6M-B2	IC40	8-759-009-06 s IC MC14052BF
D604	8-719-105-91 s DIODE RD5.6M-B2	IC41	8-759-908-17 s IC TL082CPS
D605	8-719-105-91 s DIODE RD5.6M-B2	IC42	8-759-908-17 s IC TL082CPS
D606	8-719-105-91 s DIODE RD5.6M-B2	IC43	8-759-908-17 s IC TL082CPS
D607	8-719-105-91 s DIODE RD5.6M-B2	IC44	8-759-908-17 s IC TL082CPS
D608	8-719-105-91 s DIODE RD5.6M-B2	IC45	8-759-908-17 s IC TL082CPS
D609	8-719-105-32 s DIODE RD2.7M-B2	IC46	8-759-908-17 s IC TL082CPS
D610	8-719-100-05 s DIODE 1S2837	IC47	8-759-908-17 s IC TL082CPS
D611	8-719-105-91 s DIODE RD5.6M-B2	IC48	8-759-908-17 s IC TL082CPS
D612	8-719-105-91 s DIODE RD5.6M-B2	IC49	8-759-114-06 s IC UPC814G2-1
D613	8-719-105-91 s DIODE RD5.6M-B2	IC50	8-759-114-06 s IC UPC814G2-1
D614	8-719-105-91 s DIODE RD5.6M-B2	IC51	8-759-008-67 s IC MC14066BF
D615	8-719-100-05 s DIODE 1S2837	IC52	8-759-008-67 s IC MC14066BF
D616	8-719-100-05 s DIODE 1S2837	IC53	8-759-008-67 s IC MC14066BF
D701	8-719-100-03 s DIODE 1S2835	IC55	8-759-114-06 s IC UPC814G2-1
D702	8-719-800-76 s DIODE 1SS226	IC56	8-759-009-06 s IC MC14052BF
D703	8-719-800-76 s DIODE 1SS226	IC57	8-759-114-06 s IC UPC814G2-1
D704	8-719-100-03 s DIODE 1S2835	IC60	8-759-008-67 s IC MC14066BF
D705	8-719-800-76 s DIODE 1SS226	IC61	8-759-008-67 s IC MC14066BF
D706 D707 D708 D709	8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 1-235-585-11 s FILTER, LOW PASS	IC62 IC63 IC64 IC67 IC68	8-759-008-67 s IC MC14066BF 8-759-114-06 s IC UPC814G2-1 8-759-009-06 s IC MC14052BF 8-759-114-06 s IC UPC814G2-1 8-759-008-67 s IC MC14066BF
IC1	8-759-908-17 s IC TL082CPS	IC69	8-759-008-67 s IC MC14066BF
IC2	8-759-982-44 s IC RC79L05A	IC70	8-759-008-67 s IC MC14066BF
IC3	8-759-114-06 s IC UPC814G2-1	IC72	8-759-114-06 s IC UPC814G2-1
IC4	8-759-984-88 s IC LM6361M	IC73	8-759-009-06 s IC MC14052BF

Ref. No.		Ref. No.	· · · · · · · · · · · · · · · · · · ·
	Part No. SP Description	or Q'ty	Part No. SP Description
IC74	8-759-114-06 s IC UPC814G2-1	JR603	1-216-295-00 s METAL, CHIP 0-0HM
IC77	8-759-008-67 s IC MC14066BF	JR605	1-216-295-00 s METAL, CHIP 0-0HM
IC78	8-759-008-67 s IC MC14066BF	JR607	1-216-295-00 s METAL, CHIP 0-0HM
IC79	8-759-008-67 s IC MC14066BF	JR609	1-216-295-00 s METAL, CHIP 0-0HM
IC80	8-759-114-06 s IC UPC814G2-1	JR612	1-216-295-00 s METAL, CHIP 0-0HM
IC82 IC83 IC84 IC85 IC601	8-759-008-67 s IC MC14066BF 8-759-008-67 s IC MC14066BF 8-759-114-06 s IC UPC814G2-1 8-759-009-06 s IC MC14052BF 8-759-114-06 s IC UPC814G2-1 8-759-114-06 s IC UPC814G2-1 8-759-114-06 s IC UPC814G2-1 8-759-205-31 s IC TC74HC373F	JR613 JR616 JR617 JR619 JR622	1-216-295-00 s METAL, CHIP 0-0HM 1-216-295-00 s METAL, CHIP 0-0HM 1-216-295-00 s METAL, CHIP 0-0HM 1-216-295-00 s METAL, CHIP 0-0HM 1-216-295-00 s METAL, CHIP 0-0HM
IC602	8-759-205-31 s IC TC74HC373F	JR624	1-216-295-00 s METAL, CHIP 0-0HM
IC603	8-759-205-31 s IC TC74HC373F	JR625	1-216-295-00 s METAL, CHIP 0-0HM
IC604	8-759-926-48 s IC SN74HC244NS	JR627	1-216-295-00 s METAL, CHIP 0-0HM
IC605	8-759-746-88 s IC UPD8749HD	JR630	1-216-295-00 s METAL, CHIP 0-0HM
IC606	8-759-926-48 s IC SN74HC244NS	JR631	1-216-295-00 s METAL, CHIP 0-0HM
IC607	8-759-926-48 s IC SN74HC244NS	JR634	1-216-295-00 s METAL, CHIP 0-0HM
IC608	8-759-921-85 s IC SN74HC4515NT	JR636	1-216-295-00 s METAL, CHIP 0-0HM
IC609	8-759-233-87 s IC TC74HCT7007AF	JR638	1-216-295-00 s METAL, CHIP 0-0HM
IC610	8-759-206-28 s IC TC74HC123F	JR640	1-216-295-00 s METAL, CHIP 0-0HM
IC611	8-759-274-76 s IC TC7476BP	JR641	1-216-295-00 s METAL, CHIP 0-0HM
IC612	8-759-926-67 s IC SN74HC374NS	Q1	8-729-100-66 s TRANSISTOR 2SC1623
IC613	8-759-926-67 s IC SN74HC374NS	Q2	8-729-216-22 s TRANSISTOR 2SA1162
IC614	8-759-926-67 s IC SN74HC374NS	Q3	8-729-100-66 s TRANSISTOR 2SC1623
IC615	8-759-926-67 s IC SN74HC374NS	Q4	8-729-216-22 s TRANSISTOR 2SA1162
IC616	8-759-971-94 s IC MBM27C256A-25CZ	Q5	8-729-100-66 s TRANSISTOR 2SC1623
IC617	8-759-971-94 s IC MBM27C256A-25CZ	Q6	8-729-100-66 s TRANSISTOR 2SC1623
IC620	8-759-233-87 s IC TC74HCT7007AF	Q7	8-729-100-66 s TRANSISTOR 2SC1623
IC621	8-759-926-23 s IC SN74HC163NS	Q8	8-729-100-66 s TRANSISTOR 2SC1623
IC622	8-759-009-37 s IC MC14512BF	Q9	8-729-175-73 s TRANSISTOR 2SC2757
IC623	8-759-233-87 s IC TC74HCT7007AF	Q10	8-729-112-65 s TRANSISTOR 2SA1462
IC624	8-759-233-87 s IC TC74HCT7007AF	Q11	8-729-112-65 s TRANSISTOR 2SA1462
IC625	8-759-009-37 s IC MC14512BF	Q12	8-729-175-73 s TRANSISTOR 2SC2757
IC628	8-759-205-39 s IC TC74HC4049F	Q14	8-729-100-66 s TRANSISTOR 2SC1623
IC629	8-759-209-13 s IC TC4042BF	Q15	8-729-216-22 s TRANSISTOR 2SA1162
IC630	8-759-803-70 s IC SN74HC08NS	Q16	8-729-100-66 s TRANSISTOR 2SC1623
IC631	8-752-306-51 s IC CX23065	Q17	8-729-216-22 s TRANSISTOR 2SA1162
IC632	8-759-948-01 s IC 74F04SJ	Q18	8-729-100-66 s TRANSISTOR 2SC1623
IC633	8-759-917-49 s IC 74F112PC	Q19	8-729-100-66 s TRANSISTOR 2SC1623
IC634	8-752-304-30 s IC CX23043	Q20	8-729-100-66 s TRANSISTOR 2SC1623
IC635	8-759-915-41 s IC 74F02PC	Q21	8-729-100-66 s TRANSISTOR 2SC1623
IC636	8-752-304-30 s IC CX23043	Q22	8-729-100-66 s TRANSISTOR 2SC1623
IC637	8-759-009-07 s IC MC14053BF	Q23	8-729-216-22 s TRANSISTOR 2SA1162
IC640	8-759-009-07 s IC MC14053BF	Q24	8-729-216-22 s TRANSISTOR 2SA1162
IC641	8-759-009-07 s IC MC14053BF	Q25	8-729-100-66 s TRANSISTOR 2SC1623
IC701	8-759-233-87 s IC TC74HCT7007AF	Q35	8-729-175-73 s TRANSISTOR 2SC2757
IC702	8-759-908-17 s IC TL082CPS	Q36	8-729-112-65 s TRANSISTOR 2SA1462
IC703	8-759-908-17 s IC TL082CPS	Q37	8-729-112-65 s TRANSISTOR 2SA1462
IC704	8-759-908-17 s IC TL082CPS	Q38	8-729-175-73 s TRANSISTOR 2SC2757
IC705	8-759-908-17 s IC TL082CPS	Q39	8-729-112-65 s TRANSISTOR 2SA1462
IC706	8-759-908-17 s IC TL082CPS	Q40	8-729-100-66 s TRANSISTOR 2SC1623
IC707 IC708 IC709 IC710 IC711	8-759-908-17 s IC TL082CPS 8-759-908-92 s IC TL084CNS 8-759-908-92 s IC TL084CNS 8-759-908-92 s IC TL084CNS 8-759-908-92 s IC TL084CNS	Q42 Q43 Q56	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162
IC712 IC713 JR601	8-759-908-17 s IC TL082CPS 8-759-008-99 s IC MC14042BF 1-216-295-00 s METAL, CHIP 0-OHM	Q61 Q62	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623

(WP-27 BOARD)

Ref. No. or Q'ty Part No. SP Description 1-237-033-11 s RES, ADJ, METAL 1K **RV18** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-036-11 s RES, ADJ, METAL 10K 1-237-035-11 s RES, ADJ, METAL 5K RV19 RV20 **RV22** 1-237-035-11 s RES, ADJ, METAL 5K **RV23 RV24** 1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K **RV25** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K **RV26 RV27 RV28** 1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K **RV29 RV30** 1-237-032-11 s RES, ADJ, METAL 500 **RV35 RV36** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-037-11 s RES, ADJ, METAL 20K **RV37 RV38** 1-237-037-11 s RES, ADJ, METAL 20K 1-237-035-11 s RES, ADJ, METAL 5K **RV39** 1-237-035-11 s RES, ADJ, METAL 5K 1-237-032-11 s RES, ADJ, METAL 500 **RV40 RV41** 1-237-032-11 s RES, ADJ, METAL 500 RV42 1-237-032-11 s RES, ADJ, METAL 500 **RV43** RV44 RV45 **RV46 RV47** 1-237-032-11 s RES, ADJ, METAL 500 **RV48** 1-237-032-11 s RES, ADJ, METAL 500 1-237-036-11 s RES, ADJ, METAL 10K 1-237-036-11 s RES, ADJ, METAL 10K **RV49 RV50 RV51** 1-237-033-11 s RES, ADJ, METAL 1K **RV52** 1-237-032-11 s RES, ADJ, METAL 500 1-237-039-11 s RES, ADJ, METAL 100K **RV53** RV54 1-237-033-11 s RES, ADJ, METAL 1K 1-237-032-11 s RES, ADJ, METAL 500 RV55 **RV56** 1-237-037-11 s RES, ADJ, METAL 20K **RV57** 1-237-033-11 s RES, ADJ, METAL 1K RV58 1-237-032-11 s RES, ADJ, METAL 500 1-237-039-11 s RES, ADJ, METAL 100K **RV59 RV60** 1-237-033-11 s RES, ADJ, METAL 1K 1-237-032-11 s RES, ADJ, METAL 500 **RV61 RV62** 1-237-037-11 s RES, ADJ, METAL 20K 1-237-032-11 s RES, ADJ, METAL 500 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K **RV63 RV64 RV65 RV66** 1-237-039-11 s RES, ADJ, METAL 100K RV601 1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-031-11 s RES, ADJ, METAL 20V RV602 RV603 RV701 1-237-034-11 s RES, ADJ, METAL 2K **RV702 RV703** 1-237-032-11 s RES, ADJ, METAL 500 1-237-031-11 s RES, ADJ, METAL 200 1-237-034-11 s RES, ADJ, METAL 2K 1-237-032-11 s RES, ADJ, METAL 500 1-237-031-11 s RES, ADJ, METAL 200 **RV704 RV705** RV706 **RV707** 1-237-034-11 s RES, ADJ, METAL 2K **RV708** 1-237-032-11 s RES, ADJ, METAL 500 1-237-031-11 s RES, ADJ, METAL 200 1-237-034-11 s RES, ADJ, METAL 2K 1-237-032-11 s RES, ADJ, METAL 500 **RV709 RV710 RV711 RV712**

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or Q'ty	y Part No. SP Description	
RV713 RV714	1-237-037-11 s RES, ADJ, METAL 20K 1-237-037-11 s RES, ADJ, METAL 20K	
RV714 RV715	1-237-036-11 s RES, ADJ, METAL 10K	
RV716 RV717		
,,,,,		
RV718 RV719	1-237-034-11 s RES, ADJ, METAL 2K 1-237-036-11 s RES, ADJ, METAL 10K	
RV720 RV721	1-237-034-11 s RES, ADJ, METAL 2K	
RV721		
RV723	1-237-036-11 s RES, ADJ, METAL 10K	
X601	1-527-992-21 s OSCILLATOR, CERAMIC	(EITH CAP)
X602	1-567-597-11 s OSCILLATOR, CRYSTAL	

CN-330 B	OARD	CN-332 B	OARD
Ref. No. or Q'ty		Ref. No.	
1pc 1pc 3pcs	A-6257-265-A O MOUNTED CIRCUIT BOARD, CN-330 2-139-125-01 O BRACKET (C), BNC 7-682-947-01 s SCREW +PSW 3X6	1pc 20pcs 4pcs	A-6257-263-A s MOUNTED CIRCUIT BOARD, CN-332 3-654-545-00 s SPACER, BNC 7-682-947-01 s SCREW +PSW 3X6
C1 C2 C3	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	C11 C12	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V
C4 C5	1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V	CN1 CN2 CN3	1-506-471-11 s CONNECTOR, 6P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE
C6 C7 C8	1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V	CN4 CN5	1-506-473-11 s CONNECTOR, 8P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE
C9 C10	1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V		1-506-469-11 s CONNECTOR, 4P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE
C11 C24 C25	1-131-353-00 s TANTALUM 10uF 10% 35V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	CN9 CN10	1-506-469-11 s CONNECTOR, 4P, MALE 1-506-469-11 s CONNECTOR, 4P, MALE
CN1 CN2	1-506-481-11 s CONNECTOR, 2P, MALE 1-506-487-11 o CONNECTOR, 8P, MALE	CN11 CN12 CN13	1-506-469-11 s CONNECTOR, 4P, MALE 1-506-473-11 s CONNECTOR, 8P, MALE 1-506-468-11 s CONNECTOR, 3P, MALE
CN3 CN4 CN5	1-506-481-11 o CONNECTOR, 2P, MALE 1-506-485-11 s CONNECTOR, 6P, MALE 1-506-487-11 s CONNECTOR, 8P, MALE	CN14 CN15 CN16	1-562-227-31 s RECEPTACLE, BNC 1-564-407-21 s CONNECTOR (R-M) 1-562-227-31 s RECEPTACLE, BNC
CN6 CN7 CN8	1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC	CN17 CN18	1-562-227-31 S RECEPTACLE, BNC 1-564-407-21 S CONNECTOR (R-M) 1-562-227-31 S RECEPTACLE, BNC 1-564-407-21 S CONNECTOR (R-M) 1-562-227-31 S RECEPTACLE, BNC
CN9 CN10	1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC	CN21	1-562-160-21 s CONNECTOR (R-F) 12P
CN11 CN12 CN13 CN14	1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC	CN22 CN23 CN24 CN25	1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC
CN15 CN16	1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC	CN26 CN27	1-564-407-21 s CONNECTOR (R-M) 1-562-227-31 s RECEPTACLE, BNC
CN17 CN18	1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC	CN28 CN29 CN30	1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-564-407-21 s CONNECTOR (R-M)
L5	1-410-723-61 s CHIP INDUCTOR 330UF	CN31	1-562-227-31 s RECEPTACLE, BNC
Q1 Q2 Q3 Q4 Q5	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	CN33 CN34 CN35	1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC
06 07 08 09 010	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462	CN36 CN37 CN38 CN39 CN40	1-562-160-21 s CONNECTOR (R-F) 12P 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC 1-562-227-31 s RECEPTACLE, BNC
R26 R27 R28 R29 R30	1-216-615-11 s METAL, CHIP 33 0.5% 1/10W 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W	Q1 Q2 Q3 Q4 Q5	8-729-100-66 s TRANSISTOR 2SC1623 8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623 8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623
NJV	I-LLO-VIJ-II S TRETTLE, CHILL JO VOUS 1/10T	06 07 08 09 010	8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623 8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623 8-729-112-65 s TRANSISTOR 2SA1462
		011 012 013	8-729-100-66 s TRANSISTOR 2SC1623 8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623

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(CN-332 BOARD)
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Ref. No. or Q'ty	Part No. SP	Description
Q14	8-729-112-65 s	TRANSISTOR 2SA1462
Q15	8-729-100-66 s	TRANSISTOR 2SC1623
Q16	8-729-112-65 s	TRANSISTOR 2SA1462
Q17	8-729-100-66 s	TRANSISTOR 2SC1623
Q18	8-729-112-65 s	TRANSISTOR 2SA1462
019	8-729-100-66 s	TRANSISTOR 2SC1623
020	8-729-112-65 s	TRANSISTOR 2SA1462
021	8-729-100-66 s	TRANSISTOR 2SC1623
022	8-729-112-65 s	TRANSISTOR 2SA1462
023	8-729-100-66 s	TRANSISTOR 2SC1623
Q24	8-729-112-65 s	TRANSISTOR 2SA1462
Q25	8-729-100-66 s	TRANSISTOR 2SC1623
Q26	8-729-112-65 s	TRANSISTOR 2SA1462
Q27	8-729-100-66 s	TRANSISTOR 2SC1623
Q28	8-729-112-65 s	TRANSISTOR 2SA1462
029	8-729-100-66 s	TRANSISTOR 2SC1623
030	8-729-112-65 s	TRANSISTOR 2SA1462
031	8-729-216-22 s	TRANSISTOR 2SA1162
R81	1-215-394-00 s	METAL 75 1% 1/6W
R82	1-215-394-00 s	METAL 75 1% 1/6W
R83	1-215-394-00 s	METAL 75 1% 1/6W
R84	1-215-394-00 s	METAL 75 1% 1/6W
R85	1-215-394-00 s	METAL 75 1% 1/6W
R86	1-215-394-00 s	METAL 75 1% 1/6W
R87	1-215-394-00 s	METAL 75 1% 1/6W
R88	1-215-394-00 s	METAL 75 1% 1/6W
R89	1-215-394-00 s	METAL 75 1% 1/6W
R90	1-215-394-00 s	METAL 75 1% 1/6W
R91	1-215-394-00 s	METAL 75 1% 1/6W
R92	1-215-394-00 s	METAL 75 1% 1/6W
R93	1-215-394-00 s	METAL 75 1% 1/6W
S1	1-554-949-11 s	SMITCH, SLIDE

CN-333 BOARD

CN-333 B	JARU
Ref. No. or Q'ty	Part No. SP Description
1pc 2pcs	A-6257-262-A O MOUNTED CIRCUIT BOARD, CN-333 (P) 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S
C10	1-124-589-11 s ELECT 47uF 20% 16V
C11	1-107-085-00 s MICA 100PF 5% 50V
C14	1-162-638-11 s CERAMIC, CHIP 1uF 16V
C18	1-126-157-11 s ELECT 10uF 20% 16V
C20	1-126-157-11 s ELECT 10uF 20% 16V
C22	1-107-085-00 s MICA 100PF 5% 50V.
C25	1-126-157-11 s ELECT 10uF 20% 16V
C26	1-126-157-11 s ELECT 10uF 20% 16V
C27	1-126-157-11 s ELECT 10uF 20% 16V
C28	1-126-157-11 s ELECT 10uF 20% 16V
C29	1-107-211-00 s MICA 24PF 5% 500V
C32	1-107-211-00 s MICA 24PF 5% 500V
C33	1-107-211-00 s MICA 24PF 5% 500V
C38	1-107-211-00 s MICA 24PF 5% 500V
C39	1-107-211-00 s MICA 24PF 5% 500V
C42	1-107-211-00 s MICA 24PF 5% 500V
C43	1-107-211-00 s MICA 24PF 5% 500V
C46	1-107-211-00 s MICA 24PF 5% 500V
C58	1-126-157-11 s ELECT 10uF 20% 16V
C59	1-126-157-11 s ELECT 10uF 20% 16V
C63	1-107-090-00 s MICA 160PF 5% 50V
C64	1-107-090-00 s MICA 160PF 5% 50V
C67	1-162-638-11 s CERAMIC, CHIP 1uF 16V
CN1	1-506-745-11 s PIN, DIN CONNECTOR (DIP) 32P
D1	8-719-800-76 s DIODE 1SS226
D2	8-719-800-76 s DIODE 1SS226
DL1	1-415-316-00 s DELAY LINE 200nS
FL1	1-235-584-11 s FILTER, LOW PASS
IC2	8-759-009-67 s IC MC14584BF
IC3	8-759-009-67 s IC MC14584BF
IC4	8-749-900-77 s IC BX-1333L
IC5	8-759-982-21 s IC RC78L05A
IC6	8-759-982-44 s IC RC79L05A
L3	1-410-713-31 s INDUCTOR, CHIP 47uH
L4	1-410-713-31 s INDUCTOR, CHIP 47uH
Q7	8-729-100-66 s TRANSISTOR 2SC1623
Q8	8-729-100-66 s TRANSISTOR 2SC1623
Q9	8-729-100-66 s TRANSISTOR 2SC1623
Q12	8-729-100-66 s TRANSISTOR 2SC1623
Q13	8-729-216-22 s TRANSISTOR 2SA1162
Q14	8-729-100-66 s TRANSISTOR 2SC1623
Q15	8-729-175-73 s TRANSISTOR 2SC2757
Q16	8-729-216-22 s TRANSISTOR 2SA1162
Q17	8-729-100-66 s TRANSISTOR 2SC1623
Q18	8-729-175-73 s TRANSISTOR 2SC2757
019	8-729-100-66 s TRANSISTOR 2SC1623
020	8-729-175-73 s TRANSISTOR 2SC2757
021	8-729-216-22 s TRANSISTOR 2SA1162
022	8-729-100-66 s TRANSISTOR 2SC1623
023	8-729-175-73 s TRANSISTOR 2SC2757
Q24	8-729-100-66 s TRANSISTOR 2SC1623
Q25	8-729-175-73 s TRANSISTOR 2SC2757
Q26	8-729-175-73 s TRANSISTOR 2SC2757

(CN-333 BOARD)

Ref. No. or Q'ty	Part No. SP Description
027	8-729-175-73 s TRANSISTOR 2SC2757
028	8-729-175-73 s TRANSISTOR 2SC2757
029	8-729-100-66 s TRANSISTOR 2SC1623
030	8-729-216-22 s TRANSISTOR 2SA1162
031	8-729-175-73 s TRANSISTOR 2SC2757
Q33	8-729-100-66 s TRANSISTOR 2SC1623
Q34	8-729-216-22 s TRANSISTOR 2SA1162
Q35	8-729-175-73 s TRANSISTOR 2SC2757
RV1 RV2 RV5 RV6 RV7	
RV8	1-237-032-11 s RES, ADJ, METAL 500
RV9	1-237-032-11 s RES, ADJ, METAL 500
RV10	1-237-032-11 s RES, ADJ, METAL 500

CN-336 BOARD

CN-330 BUAKD		
Ref. No. or Q'ty	Part No. SP Description	
2pcs 2pcs	A-6257-264-A o MOUNTED CIRCUIT BOARD, CN-336 7-621-775-40 s SCREW +B 2.6X8 7-622-207-05 o N 2.6, TYPE 2 7-682-547-04 s SCREW +B 3X6	
C2 C3	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	
CN8 CN9	1-506-792-11 o HEADER 60P 1-563-322-11 s CONNECTOR,D-SUB(MOUNT TYPE)25P 1-506-796-11 s CONNECTOR, D-SUB 15P, FEMALE 1-563-322-11 s CONNECTOR,D-SUB(MOUNT TYPE)25P 1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE	
CN12 CN14	1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE 1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE	
D4	8-719-100-05 s DIODE 1\$2837 8-719-100-05 s DIODE 1\$2837 8-719-100-05 s DIODE 1\$2837 8-719-100-05 s DIODE 1\$2837 8-719-100-05 s DIODE 1\$2837	
D6 D7 D8	8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837	
IC3	8-759-923-65 s IC AM26LS31CNS 8-759-923-64 s IC AM26LS32ACNS 8-759-923-65 s IC AM26LS31CNS 8-759-923-64 s IC AM26LS32ACNS	
Q1 Q2 Q3 Q4 Q5	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX	
Q7	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX	
R1 R2 R3 R4 R5	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W	
R6 R7 R8 R9 R10	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-033-00 s METAL, CHIP 22O 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W	
R11 R12 R13 R14 R15	1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W	
R16	1-216-033-00 s METAL, CHIP 220 5% 1/10W	
RY1 RY2 RY3 RY4 RY5	1-515-434-00 s RELAY, MICRO LEAD 1-515-434-00 s RELAY, MICRO LEAD 1-515-434-00 s RELAY, MICRO LEAD 1-515-434-00 s RELAY, MICRO LEAD 1-515-434-00 s RELAY, MICRO LEAD	

(CN-336 BOARD)

Ref. No. or Q'ty Part No. SP Description

RY6 1-515-434-00 s RELAY, MICRO LEAD RY7 1-515-434-00 s RELAY, MICRO LEAD RY8 1-515-434-00 s RELAY, MICRO LEAD

EN-80 BOARD Ref. No. or Q'ty Part No. SP Description A-6257-260-A o MOUNTED CIRCUIT BOARD, EN-80 (P) 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S 2pcs 1-131-353-00 s TANTALUM 10uF 10% 35V Cl C2 1-131-353-00 s TANTALUM 10uF 10% 35V 1-107-042-00 s MICA 2.2PF 500V 1-107-048-00 s MICA 6.8PF 500V C3 1-107-040-00 s MICA 1.5PF 0.5PF 500VW 1-107-042-00 s MICA 2.2PF 500V 1-107-085-00 s MICA 100PF 5% 50V 1-109-545-00 s MICA 270PF 5% 50V 83 C11 C12 1-131-345-00 s TANTALUM 0.47uF 10% 35V 1-131-374-00 s TANTALUM 33uF 10% 16V C13 C14 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-131-374-00 s TANTALUM 33uF 10% 16V C18 C20 1-107-085-00 s MICA 100PF 5% 50V 1-109-545-00 s MICA 270PF 5% 50V 1-131-345-00 s TANTALUM 0.47uF 10% 35V C23 C24 C25 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V C36 C37 C38 1-131-374-00 s TANTALUM 33uF 10% 16V 1-124-589-11 s ELECT 47uF 20% 16V CN1 1-506-745-11 s PIN, DIN CONNECTOR (DIP) 32P CV1 1-141-298-11 s CAP, CERAMIC TRIMMER 10P DL1 1-415-304-00 s DELAY LINE (Y) FL1 1-235-181-00 s FILTER, BANDPASS 4.43MHz 8-741-135-60 s IC BX1356 8-759-906-59 s IC CX22017 IC2 8-759-982-44 s IC RC79L05A TC3 1-410-715-31 s INDUCTOR, CHIP 68uH 1-410-715-31 s INDUCTOR, CHIP 68uH 1.1 L2 8-729-175-73 s TRANSISTOR 2SC2757 Ò2 8-729-175-73 s TRANSISTOR 2SC2757 8-729-112-65 s TRANSISTOR 2SA1462 8-729-100-66 s TRANSISTOR 2SC1623 Ò3 Ò4 Õ5 8-729-100-66 s TRANSISTOR 2SC1623 Q6 8-729-216-22 s TRANSISTOR 2SA1162 Q7 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 ġ8 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 Q11 8-729-100-66 s TRANSISTOR 2SC1623 Q12 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 Q13 014 **Q15** 8-729-175-73 s TRANSISTOR 2SC2757 016 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 017 **Q18** 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 Q19 8-729-216-22 s TRANSISTOR 2SA1162 Q20 Q21 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162

(EN-80 BOARD)

Ref. No. or Q'ty Part No. SP Description 1-215-394-00 s METAL 75 1% 1/6W 1-215-394-00 s METAL 75 1% 1/6W 1-216-105-00 s METAL, CHIP 220K 5% 1/10W **R64** R65 1-237-033-11 s RES, ADJ, METAL 1K 1-237-034-11 s RES, ADJ, METAL 2K 1-237-035-11 s RES, ADJ, METAL 5K 1-237-034-11 s RES, ADJ, METAL 5K RV1 RV2 RV3 RV4 1-237-035-11 s RES, ADJ, METAL 5K RV5 1-237-037-11 s RES, ADJ, METAL 20K 1-237-035-11 s RES, ADJ, METAL 5K 1-237-035-11 s RES, ADJ, METAL 5K RV7 RVR

IV-25 BOARD

Ref. No. or Q'ty Part No. SP Description A-6257-258-A o MOUNTED CIRCUIT BOARD, IV-25 (P) 1pc 2-139-126-01 o PANEL, REAR, IV 7-682-947-01 s SCREW +PSW 3X6 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S 1pc 4pcs 2pcs 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V 1-131-353-00 s TANTALUM 10uF 10% 35V C4 Č7 C13 C14 1-131-353-00 s TANTALUM 10uF 10% 35V **C15** 1-131-353-00 S TANTALUM, CHIP 33uF 20% 10V 1-135-125-21 S TANTALUM, CHIP 33uF 20% 10V 1-162-638-11 S CERAMIC, CHIP 1uF 16V 1-162-638-11 S CERAMIC, CHIP 1uF 16V 1-164-232-11 S CERAMIC 0.01uF 10% 50V C16 C17 C18 C20 1-164-232-11 s CERAMIC 0.01uF 10% 50V C26 1-104-252-11 S CERAMIC 0.010F 10% 50 1-124-589-11 S ELECT 47uF 20% 16V 1-162-638-11 S CERAMIC, CHIP 1uF 16V 1-131-353-00 S TANTALUM 10uF 10% 35V C28 C29 C30 C33 1-124-589-11 s ELECT 47uF 20% 16V 1-131-353-00 s TANTALUM 10uF 10% 35V 1-131-353-00 s TANTALUM 10uF 10% 35V C35 1-563-354-11 s CONNECTOR, BNC 1-563-354-11 s CONNECTOR, BNC CN1 CN₂ 1-563-354-11 s CONNECTOR, BNC CN₃ 1-506-745-11 s PIN, DIN CONNECTOR (DIP) 32P CN4 1-563-354-11 s CONNECTOR, BNC CN5 1-563-354-11 s CONNECTOR, BNC CN6 CN7 1-563-354-11 s CONNECTOR, BNC 8-759-602-06 s IC M5109P 8-759-702-07 s IC NJM13700M IC5 1-410-721-31 s INDUCTOR CHIP 220UH 1-410-721-31 s INDUCTOR CHIP 220UH L2 8-729-100-66 s TRANSISTOR 2SC1623 Q2 8-729-112-65 s TRANSISTOR 2SA1462-T1Y34 8-729-100-66 s TRANSISTOR 2SC1623 ÒЗ Õ4 8-729-112-65 s TRANSISTOR 2SA1462-T1Y34 Ò5 8-729-100-66 s TRANSISTOR 2SC1623 8-729-112-65 s TRANSISTOR 2SA1462-T1Y34 **Q6** 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 ġ8 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 011 8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-73 s TRANSISTOR 2SC2757 Q13 Q14 8-729-175-73 s TRANSISTOR 2SC2757 Q15 8-729-175-73 s TRANSISTOR 2SC2757 Q16 8-729-112-65 s TRANSISTOR 2SA1462-T1Y34 **017** Q18 8-729-112-65 s TRANSISTOR 2SA1462-T1Y34 8-729-116-64 s TRANSISTOR 2SK508-T1K51 Q19 8-729-116-64 s TRANSISTOR 2SK508-T1K51 8-729-216-22 s TRANSISTOR 2SA1162 **Q20** 021 8-729-216-22 s TRANSISTOR 2SA1162 **Q25** 8-729-100-66 s TRANSISTOR 2SC1623 **Q26** 8-729-175-73 s TRANSISTOR 2SC2757 Q27 **Q28** 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 Q29 8-729-175-73 s TRANSISTOR 2SC2757

(IV-25 BOARD)

Ref. No. or Q'ty	Part No. SP Description
031	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
032	8-729-175-73 s TRANSISTOR 2SC2757
033	8-729-175-73 s TRANSISTOR 2SC2757
034	8-729-175-73 s TRANSISTOR 2SC2757
Q35	8-729-175-73 s TRANSISTOR 2SC2757
Q36	8-729-175-73 s TRANSISTOR 2SC2757
R115	1-215-432-11 s METAL FILM 3K 1% 1/6W
R116	1-215-397-11 s METAL FILM 100 1% 1/6W
R117	1-215-397-11 s METAL FILM 100 1% 1/6W
RP1	1-235-528-12 s COMPOSITION CIRCUIT BLOCK 1-235-526-11 s COMPOSITION CIRCUIT BLOCK 1-235-527-11 s COMPOSITION CIRCUIT BLOCK
RP2	1-235-526-11 s COMPOSITION CIRCUIT BLOCK
RP3	1-235-527-11 s COMPOSITION CIRCUIT BLOCK
RV1	1-237-514-21 s RES, ADJ, METAL 500 1-237-514-21 s RES, ADJ, METAL 500
RV2	1-237-514-21 s RES, ADJ, METAL 500
RV3	1-237-036-11 s RES, ADJ, METAL 10K 1-237-514-21 s RES, ADJ, METAL 500
RV4	1-237-514-21 s RES, ADJ, METAL 500
RV5	1-237-514-21 s RES, ADJ, METAL 500
RV6	1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K 1-237-032-11 s RES, ADJ, METAL 500 1-237-034-11 s RES, ADJ, METAL 2K
RV7	1-237-033-11 s RES, ADJ, METAL 1K
RV8	1-237-032-11 s RES, ADJ, METAL 500
RV9	1-237-034-11 s RES, ADJ, METAL 2K
S1	1-554-896-21 s SWITCH, SLIDE
S2	1-570-134-11 s SWITCH, SLIDE

HN-105 BOARD

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Ref. No.
or Q'ty Part No.
                              SP Description
             A-6265-120-A o MOUNTED CIRCUIT BOARD, HN-105
             7-685-645-79 s SCREW +BVTP 3X6 TYPE2 N-S
1pc
             1-560-731-00 o HEADER, PIN 50P
CN1
CN2
             1-563-336-11 o HOUSING, 64P
CN3
             1-563-336-11 o HOUSING, 64P
             1-563-336-11 o HOUSING, 64P
CN4
             1-563-336-11 o HOUSING, 64P
CN5
CN<sub>6</sub>
             1-563-336-11 o HOUSING, 64P
             1-563-336-11 o HOUSING, 64P
CN7
             1-563-336-11 o HOUSING, 64P
CN8
             1-563-336-11 o HOUSING, 64P
CN9
CN10
             1-563-336-11 o HOUSING, 64P
CN11
             1-563-336-11 o HOUSING, 64P
             1-563-336-11 o HOUSING, 64P
1-563-336-11 o HOUSING, 64P
CN12
CN13
             1-563-336-11 o HOUSING, 64P
1-563-336-11 o HOUSING, 64P
CN14
CN15
             1-563-336-11 o HOUSING, 64P
CN16
             1-563-336-11 o HOUSING, 64P
1-563-336-11 o HOUSING, 64P
CN17
CN18
             1-506-475-11 o CONNECTOR, 10P, MALE
1-506-475-11 o CONNECTOR, 10P, MALE
CN19
CN20
            1-506-471-11 s CONNECTOR, 6P, MALE
1-506-469-11 s CONNECTOR, 4P, MALE
1-506-472-11 s CONNECTOR, 7P, MALE
1-506-470-11 s CONNECTOR, 5P, MALE
1-506-475-11 o CONNECTOR, 10P, MALE
CN21
CN22
CN23
CN24
CN25
CN26
             1-506-471-11 s CONNECTOR, 6P, MALE
            1-506-469-11 s CONNECTOR, 4P, MALE
1-506-472-11 s CONNECTOR, 7P, MALE
1-506-470-11 s CONNECTOR, 5P, MALE
1-506-475-11 o CONNECTOR, 10P, MALE
CN27
CN28
CN29
CN30
             1-506-471-11 o CONNECTOR, 6P, MALE
CN31
             1-506-469-11 s CONNECTOR, 4P, MALE
1-506-472-11 o CONNECTOR, 7P, MALE
CN32
CN33
             1-506-470-11 o CONNECTOR, 5P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
CN34
CN35
            1-506-467-11 s CONNECTOR, 2P, MALE
1-506-475-11 o CONNECTOR, 10P, MALE
1-506-467-11 o CONNECTOR, 2P, MALE
1-506-467-11 o CONNECTOR, 8P, MALE
CN36
CN37
CN38
CN39
             1-506-467-11 o CONNECTOR, 2P, MALE
CN40
CN41
             1-506-471-11 s CONNECTOR, 6P, MALE
             1-563-336-11 o HOUSING, 64P
1-560-807-00 o HEADER 60P
CN42
CN43
             1-563-336-11 o HOUSING, 64P
CN44
             1-506-471-11 s CONNECTOR, 6P, MALE
CN45
CN50
             1-506-473-11 s CONNECTOR, 8P, MALE
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HN-138 BOARD
Ref. No.
or Q'ty Part No.
                                       SP Description
                 A-6265-121-A o MOUNTED CIRCUIT BOARD, HN-138
                 7-685-645-79 s SCREW +BVTP 3X6 TYPE2 N-S
1pc
                1-563-334-11 o HOUSING, 32P
1-563-334-11 o HOUSING, 32P
CN1
CN<sub>2</sub>
                 1-563-334-11 o HOUSING, 32P
CN3
CN4
                 1-563-334-11 o HOUSING, 32P
                 1-563-334-11 o HOUSING, 32P
CN<sub>5</sub>
CN6
                1-563-334-11 o HOUSING, 32P
                1-563-334-11 o HOUSING, 32P
1-563-334-11 o HOUSING, 32P
CN7
CN8
                 1-563-334-11 o HOUSING, 32P
 CN9
 CN10
                 1-563-334-11 o HOUSING, 32P
                1-506-485-11 s CONNECTOR, 6P, MALE
CN11
CN12
CN13
 CN14
 CN15
                 1-506-485-11 s CONNECTOR, 6P, MALE
                1-506-488-11 o CONNECTOR, 9P, MALE
1-506-485-11 s CONNECTOR, 6P, MALE
 CN16
 CN17
CN18
 CN19
 CN20
                 1-506-473-11 s CONNECTOR, 8P, MALE
 CN21
                 1-506-469-11 s CONNECTOR, 4P, MALE
1-506-467-11 o CONNECTOR, 2P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
 CN22
 CN23
 CN24
 CN25
                 1-506-471-11 s CONNECTOR, 6P, MALE
1-506-473-11 s CONNECTOR, 8P, MALE
 CN26
 CN27
 CN28
 CN29
 CN30
 CN31
                 1-506-473-11 s CONNECTOR, 8P, MALE
                 1-506-471-11 s CONNECTOR, 6P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
 CN32
 CN33
                 1-506-471-11 s CONNECTOR, 6P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
 CN34
 CN35
                 1-506-473-11 s CONNECTOR, 8P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE
 CN36
 CN37
                 1-506-471-11 s CONNECTOR, 6P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
1-506-471-11 s CONNECTOR, 6P, MALE
 CN38
 CN39
 CN40
                 1-506-467-11 s CONNECTOR, 2P, MALE
1-506-467-11 s CONNECTOR, 2P, MALE
1-506-468-11 s CONNECTOR, 3P, MALE
 CN41
 CN42
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D1 8-719-812-32 s LED TLY123, YEL D2 8-719-812-32 s LED TLY123, YEL D3 8-719-812-32 s LED TLY123, YEL D4 8-719-812-32 s LED TLY123, YEL R1 1-249-408-11 s CARBON 180 5% 1/4% R2 1-249-408-11 s CARBON 180 5% 1/4% R3 1-249-408-11 s CARBON 180 5% 1/4%	Ref. No. or Q'ty	Part No.	SP	Description
D1 8-719-812-32 s LED TLY123, YEL D2 8-719-812-32 s LED TLY123, YEL D3 8-719-812-32 s LED TLY123, YEL D4 8-719-812-32 s LED TLY123, YEL R1 1-249-408-11 s CARBON 180 5% 1/4h R2 1-249-408-11 s CARBON 180 5% 1/4h R3 1-249-408-11 s CARBON 180 5% 1/4h				
D2 8-719-812-32 s LED TLY123, YEL D3 8-719-812-32 s LED TLY123, YEL D4 8-719-812-32 s LED TLY123, YEL R1 1-249-408-11 s CARBON 180 5% 1/4h R2 1-249-408-11 s CARBON 180 5% 1/4h R3 1-249-408-11 s CARBON 180 5% 1/4h	CN1	1-506-482-11	l s	CONNECTOR, 3P, MAL
R2 1-249-408-11 s CARBON 180 5% 1/4h R3 1-249-408-11 s CARBON 180 5% 1/4h	D2 D3	8-719-812-32 8-719-812-32	2 s 2 s	LED TLY123, YEL LED TLY123, YEL
	R2 R3	1-249-408-11 1-249-408-11	ls ls	CARBON 180 5% 1/4W CARBON 180 5% 1/4W
			,	

CN43

KY-155 B	OARD	(KY-155	BOARD)
W1-100 D		(111 200	
Ref. No.		Ref. No.	
or Q'ty	Part No. SP Description	or Q'ty	Part No. SP Description
			4 400 400 44 0504450 0450 4 5 464
1pc	A-6259-373-A o MOUNTED CIRCUIT BOARD, KY-155 (P)	C49	1-162-638-11 s CERAMIC, CHIP 1uF 16V
1pc	1-562-148-11 o HOUSING, 3P	C50	1-162-638-11 s CERAMIC, CHIP 1uF 16V
1pc	1-562-148-11 0 HOUSING, 3P 1-562-151-11 0 HOUSING, 6P 1-562-153-11 0 HOUSING, 8P	C51	1-162-638-11 s CERAMIC, CHIP 1uF 16V
1pc	1-562-153-11 o HOUSING, 8P		1-164-232-11 s CERAMIC 0.01uF 10% 50V
3pcs	1-564-026-00 o CONTACT, FEMALE, AWG26-30	C53	1-164-232-11 s CERAMIC 0.01uF 10% 50V
inc	1 ETA QUE 11 C WIDE ASSV FLAT TYPE (25 CODE)	CEA	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
lpc lpc	2 068 008_00 c WASHED	C55	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
1pc	2 130_130_01 A DIATE SHIFID	C56	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
3pcs	2-139-131-01 O HEAT SINK CON.	057	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
4pcs	1-574-996-11 s WIRE ASSY, FLAT TYPE (25 CORE) 2-068-008-00 s WASHER 2-139-130-01 o PLATE, SHIELD 2-139-131-01 o HEAT SINK, CON. 2-280-622-61 o SUPPORT (M3X20), HEXAGON	C70	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
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1pc	3-668-459-31 s SCREW, CONNECTOR 4-604-023-11 o NUT (D SUB), PLATE 7-621-772-68 s SCREW +B 2X12 7-621-773-95 s SCREW +B 2.6X6 7-621-775-40 s SCREW +B 2.6X8	C71	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
1pc	4-604-023-11 o NUT (D SUB), PLATE	C72	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
2pcs	7-621-772-68 s SCREW +B 2X12	C73	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
2pcs	7-621-773-95 s SCREW +B 2.6X6	C74	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
2pcs	7-621-775-40 s SCREW +B 2.6X8	C75	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
•			
2pcs	7-622-205-05 s NUT M2 TYPE2 7-622-207-05 o N 2.6, TYPE 2 7-623-953-01 s WASHER 2.6, FIBER 7-682-547-04 s SCREW +B 3X6 7-682-947-01 s SCREW +PSW 3X6	C77	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V 1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
2pcs	7-622-207-05 o N 2.6, TYPE 2 7-623-953-01 s WASHER 2.6, FIBER	C70	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
1pc	7-682-547-04 s SCREW +B 3X6	C70	1-162-286-31 s CERAMIC, CHIP 220FF 10% 50V
2pcs 6pcs	7-682-947-01 s SCREW +PSW 3X6	CSU	1-162-286-31 s CERAMIC, CHIP 220PF 10% 50V
opcs			1-102-200-31 3 02/04/10, 0/12/ 220// 100/ 000
3pcs	7-682-948-01 s SCREW +PSW 3X8 7-685-132-19 s SCREW +P 2.6X5 TYPE2 SLIT 7-688-001-02 s W 2, SMALL 1-529-055-11 s BUZZER	CN1	1-506-694-11 o HEADER 26P
6pcs	7-685-132-19 s SCREW +P 2.6X5 TYPE2 SLIT	CN2	1-506-492-11 o CONNECTOR, 13P, MALE
4pcs	7-688-001-02 s W 2. SMALL	CN3	1-506-488-11 o CONNECTOR, 9P, MALE
		CN6	1-506-469-11 s CONNECTOR, 4P, MALE
BZ1	1-529-055-11 s BUZZER	CN7	1-506-487-11 s CONNECTOR, 8P, MALE
C1	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	CN8	1-506-485-11 s CONNECTOR, 6P, MALE
C2	1-164-232-11 s CERAMIC 0.01uF 10% 50V	CN9	1-506-482-11 s CONNECTOR, 3P, MALE
C3	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-126-157-11 s ELECT 10uF 20% 16V 1-124-767-00 s ELECT, NONPOLAR 2.2uF 20% 50V	D1	0 710 100 OF a DIODE 100027
C4	1-120-15/-11 S ELEC! 100F 20% 10V	D1	8-719-100-05 s DIODE 1S2837
C5		DE.	8-719-100-05 s DIODE 1S2837 8-719-100-05 s DIODE 1S2837
ce	1 124 767 00 - ELECT NONDOLAD 2 20E 20% EOV	D5 D6	8-719-100-05 \$ DIODE 152637
C6 C7	1-124-707-00 S ELECT, NONFOLAR 2.20F 20% 30V	DO DO	8-719-100-05 s DIODE 152837
C8	1-124-767-00 s ELECT, NONPOLAR 2.2uF 20% 50V 1-124-464-11 s ELECT 0.22MF 20% 50V 1-163-011-11 s CERAMIC 0.0015uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	03	0-713-100-03 3 51052 132037
C11	1-164-232-11 S CFRAMIC 0.01uF 10% 50V	D10	8-719-105-82 s DIODE RD5.1M-B2
C12	1-164-232-11 s CERAMIC 0.01uF 10% 50V	D11	8-719-105-82 s DIODE RD5.1M-B2
		D12	8-719-100-05 s DIODE 1S2837
C13	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	D13	8-719-100-05 s DIODE 1S2837
C14	1-164-232-11 s CERAMIC 0.01uF 10% 50V	D14	8-719-100-05 s DIODE 1S2837
C15	1-164-232-11 s CERAMIC 0.01uF 10% 50V		
C16	1-164-232-11 s CERAMIC 0.01uF 10% 50V	D15	8-719-100-05 s DIODE 1S2837
C17	1-164-232-11 s CERAMIC 0.01uF 10% 50V	D16	8-719-100-05 s DIODE 1S2837
	4 404 470 44 - 51507 400 5 000 0511	D26	8-719-109-89 s DIODE RD5.6ESB2
C18	1-124-478-11 s ELECT 100uF 20% 25V	D27	8-719-109-89 s DIODE RD5.6ESB2
C31	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D28	8-719-109-89 s DIODE RD5.6ESB2
C32 C33	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	D29	8-719-109-89 s DIODE RD5.6ESB2
C34	1-162-638-11 s CERAMIC, CHIP 1ur 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	D30	8-719-109-89 s DIODE RD5.6ESB2
UJT	T-TOS-OQUALT 9 OFFIRMITO! OHITE TOI TOA	D30	8-719-109-89 s DIODE RD5.6ESB2
C35	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D32	8-719-109-89 s DIODE RD5.6ESB2
C36	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D33	8-719-109-89 s DIODE RD5.6ESB2
C37	1-162-638-11 s CERAMIC, CHIP 1uF 16V	-	
C38	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D34	8-719-109-89 s DIODE RD5.6ESB2
C39	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D35	8-719-109-89 s DIODE RD5.6ESB2
		D36	8-719-109-89 s DIODE RD5.6ESB2
C40	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D37	8-719-109-89 s DIODE RD5.6ESB2
C41	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D38	8-719-109-89 s DIODE RD5.6ESB2
C42	1-162-638-11 s CERAMIC, CHIP 1uF 16V	nan	0 710 100 00 a DIODE DDE CECOO
C43	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D39	8-719-109-89 s DIODE RD5.6ESB2
C44	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D40	8-719-109-89 s DIODE RD5.6ESB2
CAE	1 162 639 11 c CEDAMIC CUID 10E 160	D41	8-719-109-89 s DIODE RD5.6ESB2 8-719-109-89 s DIODE RD5.6ESB2
C45	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	D42 D43	8-719-109-89 s DIODE RD5.6ESB2
C46 C47	1-162-638-11 S CERAMIC, CHIP TUP 16V	UTJ	0-119-103-03 3 DIANT WR3:AF3DE
C47	1-162-638-11 s CERAMIC, CHIP 1uF 16V	D44	8-719-109-89 s DIODE RD5.6ESB2
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(KY-155 BOARD)

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Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
D45 8-719-109-89 s DIODE RD5.6ESB2 D46 8-719-109-89 s DIODE RD5.6ESB2 D47 8-719-109-89 s DIODE RD5.6ESB2 D48 8-719-109-89 s DIODE RD5.6ESB2 D49 8-719-109-89 s DIODE RD5.6ESB2	IC27 8-759-008-95 s IC MC14028BF IC28 8-759-000-83 s IC MC14532BCP IC29 8-759-000-83 s IC MC14532BCP IC30 8-759-008-95 s IC MC14028BF IC31 8-759-000-83 s IC MC14532BCP
D50 8-719-109-89 s DIODE RD5.6ESB2 D51 8-719-109-89 s DIODE RD5.6ESB2 D52 8-719-109-89 s DIODE RD5.6ESB2 D53 8-719-109-89 s DIODE RD5.6ESB2 D54 8-719-109-89 s DIODE RD5.6ESB2	IC32 8-759-000-83 s IC MC14532BCP IC33 8-759-926-11 s IC SN74HC138NS IC34 8-759-926-11 s IC SN74HC138NS IC35 8-759-926-67 s IC SN74HC374NS IC36 8-759-008-95 s IC MC14028BF
D55 8-719-109-89 s DIODE RD5.6ESB2 D56 8-719-109-89 s DIODE RD5.6ESB2 D57 8-719-109-89 s DIODE RD5.6ESB2 D58 8-719-109-89 s DIODE RD5.6ESB2 D59 8-719-109-89 s DIODE RD5.6ESB2	IC37 8-759-000-83 s IC MC14532BCP IC38 8-759-000-83 s IC MC14532BCP IC39 8-759-926-48 s IC SN74HC244NS IC40 8-759-925-85 s IC SN74HC32NS IC41 8-759-925-85 s IC SN74HC32NS
D60 8-719-109-89 s DIODE RD5.6ESB2 D61 8-719-109-89 s DIODE RD5.6ESB2 D62 8-719-109-89 s DIODE RD5.6ESB2 D63 8-719-109-89 s DIODE RD5.6ESB2 D64 8-719-109-89 s DIODE RD5.6ESB2	
D65 8-719-109-89 s DIODE RD5.6ESB2 D66 8-719-109-89 s DIODE RD5.6ESB2 D67 8-719-109-89 s DIODE RD5.6ESB2 D68 8-719-109-89 s DIODE RD5.6ESB2 D69 8-719-109-89 s DIODE RD5.6ESB2	IC47 8-759-926-48 s IC SN74HC244NS IC48 8-759-926-11 s IC SN74HC138NS IC49 8-759-926-11 s IC SN74HC138NS IC50 8-759-926-11 s IC SN74HC138NS IC51 8-759-982-05 s IC RC7805FA
D70 8-719-109-89 s DIODE RD5.6ESB2 D71 8-719-109-89 s DIODE RD5.6ESB2 D72 8-719-109-89 s DIODE RD5.6ESB2 D73 8-719-109-89 s DIODE RD5.6ESB2 D74 8-719-109-89 s DIODE RD5.6ESB2	IC52 8-759-982-05 s IC RC7805FA IC53 8-759-982-05 s IC RC7805FA IC54 8-759-925-85 s IC SN74HC32NS IC55 8-759-303-46 s IC HM6264LFP-15SL IC56 8-759-925-98 s IC SN74HC107NS
D75 8-719-109-89 s DIODE RD5.6ESB2 D76 8-719-109-89 s DIODE RD5.6ESB2 IC1 8-759-923-64 s IC AM26LS32ACNS IC2 8-759-200-79 s IC TC4049BF	TOEN O 7EN NOE AR E TO SN7AUCOAANS
IC2 8-759-200-79 s IC TC4049BF IC3 8-759-923-64 s IC AM26LS32ACNS IC4 8-759-923-65 s IC AM26LS31CNS IC5 8-759-990-64 s IC MSM80C31FVGS-V1K	IC61 8-759-200-79 s IC TC4049BF IC62 8-759-200-79 s IC TC4049BF IC63 8-759-803-70 s IC SN74HC08NS IC64 8-759-926-67 s IC SN74HC374NS
IC6 8-759-803-70 s IC SN74HC08NS IC7 8-759-232-94 s IC TC74HC245AF IC8 8-759-926-48 s IC SN74HC244NS IC9 8-759-926-48 s IC SN74HC244NS IC10 8-759-926-48 s IC SN74HC244NS	Q1 8-729-422-21 s TRANSISTOR UN2224-TX Q2 8-729-422-21 s TRANSISTOR UN2224-TX Q3 8-729-422-21 s TRANSISTOR UN2224-TX Q4 8-729-422-21 s TRANSISTOR UN2224-TX Q9 8-729-422-21 s TRANSISTOR UN2224-TX
IC11 8-759-926-67 s IC SN74HC374NS IC12 8-759-747-55 s IC MBM27C256A-25-X IC13 8-759-008-79 s IC MC14011BF IC14 8-759-008-79 s IC MC14011BF IC15 8-759-926-67 s IC SN74HC374NS	Q10 8-729-422-21 s TRANSISTOR UN2224-TX Q11 8-729-422-21 s TRANSISTOR UN2224-TX Q12 8-729-422-21 s TRANSISTOR UN2224-TX Q13 8-729-422-21 s TRANSISTOR UN2224-TX Q14 8-729-422-21 s TRANSISTOR UN2224-TX
IC16 8-759-106-58 s IC UPD7004C IC17 8-759-009-06 s IC MC14052BF IC18 8-759-009-06 s IC MC14052BF IC19 8-759-926-67 s IC SN74HC374NS IC20 8-759-009-10 s IC MC14069UBF	Q15 8-729-422-21 s TRANSISTOR UN2224-TX Q16 8-729-422-21 s TRANSISTOR UN2224-TX Q17 8-729-422-21 s TRANSISTOR UN2224-TX Q18 8-729-422-21 s TRANSISTOR UN2224-TX Q19 8-729-422-21 s TRANSISTOR UN2224-TX
IC21 8-759-008-95 s IC MC14028BF IC22 8-759-000-83 s IC MC14532BCP IC23 8-759-926-48 s IC SN74HC244NS IC24 8-759-926-67 s IC SN74HC374NS IC25 8-759-926-48 s IC SN74HC244NS IC26 8-759-926-67 s IC SN74HC374NS	Q20 8-729-422-21 s TRANSISTOR UN2224-TX Q21 8-729-422-21 s TRANSISTOR UN2224-TX Q22 8-729-422-21 s TRANSISTOR UN2224-TX Q23 8-729-422-21 s TRANSISTOR UN2224-TX Q24 8-729-422-21 s TRANSISTOR UN2224-TX
IC26 8-759-926-67 s IC SN74HC374NS	

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
R70 R71 R72 R73 R74	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R156 1-249-414-21 s CARBON 560 5% 1/4W R157 1-249-414-21 s CARBON 560 5% 1/4W R158 1-249-414-21 s CARBON 560 5% 1/4W R159 1-249-414-21 s CARBON 560 5% 1/4W R160 1-249-414-21 s CARBON 560 5% 1/4W
R75 R76 R77 R78 R79		RV1 1-238-720-11 s RES, VAR, CARBON 5K RV2 1-238-720-11 s RES, VAR, CARBON 5K RV3 1-238-720-11 s RES, VAR, CARBON 5K RV4 1-238-720-11 s RES, VAR, CARBON 5K RV5 1-238-720-11 s RES, VAR, CARBON 5K
R80 R87 R88 R89 R90	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W	RV6 1-238-720-11 s RES, VAR, CARBON 5K RV7 1-238-720-11 s RES, VAR, CARBON 5K RV8 1-238-720-11 s RES, VAR, CARBON 5K RV9 1-238-720-11 s RES, VAR, CARBON 5K RV10 1-238-720-11 s RES, VAR, CARBON 5K
R91 R92 R93 R94 R95	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	RV11 1-238-720-11 s RES, VAR, CARBON 5K RV12 1-238-720-11 s RES, VAR, CARBON 5K RV13 1-238-720-11 s RES, VAR, CARBON 5K RV14 1-238-720-11 s RES, VAR, CARBON 5K RV15 1-238-720-11 s RES, VAR, CARBON 5K
R96 R97 R98 R99 R100	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	RV16 1-238-720-11 s RES, VAR, CARBON 5K S1 1-572-036-31 s SWITCH, PUSH (1 KEY) S2 1-572-036-61 s SWITCH, PUSH (1 KEY) S3 1-572-036-71 s SWITCH, PUSH (1 KEY) S4 1-572-036-81 s SWITCH, PUSH (1 KEY)
R101 R102 R103 R104 R105	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	S5 1-572-036-91 s SWITCH, PUSH (1 KEY)
R106 R107 R108 R109 R110	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	S10 1-572-034-31 s SWITCH, PUSH (1 KEY) S11 1-572-031-11 s SWITCH, PUSH (1 g-) S12 1-572-037-71 s SWITCH, PUSH (1 KEY) S13 1-572-036-41 s SWITCH, PUSH (1 KEY)
R111 R112 R113 R114 R115	1-216-009-00 s METAL, CHIP 22 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-009-00 s METAL, CHIP 22 5% 1/10W	S15 1-572-036-51 s SWITCH, PUSH (1 KEY) S16 1-572-037-81 s SWITCH, PUSH (1 KEY) S17 1-572-037-91 s SWITCH, PUSH (1 KEY) S18 1-572-032-51 s SWITCH, PUSH (1 KEY)
R116 R117 R118 R119 R120	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-009-00 s METAL, CHIP 22 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	\$19
R121 R122 R123 R124 R125	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	S25 1-572-032-41 s SWITCH, PUSH (1 KEY) S26 1-572-032-41 s SWITCH, PUSH (1 KEY) S27 1-572-032-61 s SWITCH, PUSH (1 KEY) S28 1-572-032-81 s SWITCH, PUSH (1 KEY) S29 1-572-032-71 s SWITCH, PUSH (1 KEY)
R126 R127 R128 R150 R151	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-249-414-21 s CARBON 560 5% 1/4W 1-249-414-21 s CARBON 560 5% 1/4W	S30 1-572-032-71 s SWITCH, PUSH (1 KEY) S31 1-572-032-71 s SWITCH, PUSH (1 KEY) S32 1-572-032-71 s SWITCH, PUSH (1 KEY) S33 1-572-032-71 s SWITCH, PUSH (1 KEY) S34 1-572-032-71 s SWITCH, PUSH (1 KEY)
R152 R153 R154 R155	1-249-414-21 s CARBON 560 5% 1/4W 1-249-414-21 s CARBON 560 5% 1/4W 1-249-414-21 s CARBON 560 5% 1/4W 1-249-414-21 s CARBON 560 5% 1/4W	S35 1-572-032-71 s SWITCH, PUSH (1 KEY) S36 1-572-032-71 s SWITCH, PUSH (1 KEY) S37 1-572-032-91 s SWITCH, PUSH (1 KEY)

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(KY-155 BOARD)
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Ref. No. or Q'ty Part No. SP Description 1-572-032-21 s SWITCH, PUSH (1 KEY) 1-572-032-11 s SWITCH, PUSH (1 KEY) 1-572-032-11 s SWITCH, PUSH (1 KEY) 1-572-032-11 s SWITCH, PUSH (1 KEY) **S39 S40 S41 S42** 1-572-032-11 s SWITCH, PUSH (1 KEY) 1-572-032-31 s SWITCH, PUSH (1 KEY) S43 S44 S45 **S46 S47** 1-572-035-91 s SWITCH, PUSH (1 KEY) 1-572-036-11 s SWITCH, PUSH (1 KEY) 1-572-036-21 s SWITCH, PUSH (1 KEY) 1-572-037-51 s SWITCH, PUSH (1 KEY) 1-572-037-61 s SWITCH, PUSH (1 KEY) **S48 S49 S50 S51 S52** 1-572-081-11 s SWITCH, PUSH (1 KEY) 1-572-038-31 s SWITCH, PUSH (1 KEY) 1-572-038-21 s SWITCH, PUSH (1 KEY) 1-572-033-11 s SWITCH, PUSH (1 KEY) 1-572-033-21 s SWITCH, PUSH (1 KEY) **S53** S54 **S55 S56 S57** 1-572-033-31 s SWITCH, PUSH (1 KEY) 1-572-033-41 s SWITCH, PUSH (1 KEY) 1-572-033-51 s SWITCH, PUSH (1 KEY) 1-572-033-61 s SWITCH, PUSH (1 KEY) 1-572-033-71 s SWITCH, PUSH (1 KEY) **S59 S60** S61 **S62** 1-572-033-81 S SWITCH, PUSH (1 KEY) 1-572-033-91 S SWITCH, PUSH (1 KEY) 1-572-034-11 S SWITCH, PUSH (1 KEY) 1-572-034-21 S SWITCH, PUSH (1 KEY) S63 **S64 S65 S66** 1-572-038-41 s SWITCH, PUSH (1 KEY) **S67** 1-572-034-71 s SWITCH, PUSH (1 KEY) 1-572-034-61 s SWITCH, PUSH (1 KEY) \$68 **S69** 1-567-796-11 s OSCILLATOR, CRYSTAL 14.7456MHz 1-567-160-00 s OSCILLATOR, CERAMIC

LP-47 BOARD

Ref. No.		Description
or y ty	Part No. SP	Description
1pc	1-631-551-11 o	PRINTED CIRCUIT BOARD, LP-47
D1 D2 D3 D4	8-719-979-87 s 8-719-979-87 s 8-719-979-87 s 8-719-979-87 s	DIODE LD-701MG DIODE LD-701MG DIODE LD-701MG DIODE LD-701MG
Q1 Q2 Q3 Q4	8-729-422-21 s 8-729-422-21 s 8-729-422-21 s 8-729-422-21 s	TRANSISTOR UN2224-TX TRANSISTOR UN2224-TX TRANSISTOR UN2224-TX TRANSISTOR UN2224-TX
R2 R3 R4	1-216-025-00 s 1-216-025-00 s 1-216-025-00 s	METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W
R7	1-216-025-00 s	METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W

LP-48 BOARD		KY-157 BOARD	
Ref. No.		Ref. No.	
1pc	1-631-552-11 o PRINTED CIRCUIT BOARD, LP-48	1pc 4pcs	A-6259-374-A o MOUNTED CIRCUIT BOARD, KY-157 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S
D1 D2 D3 D4 D5	8-719-979-87 s DIODE LD-701MG 8-719-979-87 s DIODE LD-701MG 8-719-979-87 s DIODE LD-701MG 8-719-979-87 s DIODE LD-701MG 8-719-919-96 s LED LD-101MG-J, GRN	C1 C2 C3 C10	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-286-31 s CERAMIC 220PF 10% 50V
D6	8-719-919-96 s LED LD-101MG-J, GRN	CN1 CN2	1-506-489-11 s CONNECTOR, 10P, MALE 1-506-484-11 s CONNECTOR, 5P, MALE
Q1 Q2 Q3 Q4 Q5	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX	CN2 CN3 CN4 IC1 IC2 IC3	1-506-488-11 o CONNECTOR, 9P, MALE 1-506-492-11 o GONNECTOR, 13P, MALE 8-759-000-83 s IC MC14532BCP 8-759-925-85 s IC SN74HC32NS
Q6	8-729-422-21 s TRANSISTOR UN2224-TX	IC4 IC5	8-759-000-83 s IC MC14532BCP 8-759-926-48 s IC SN74HC244NS 8-759-926-48 s IC SN74HC244NS
R1 R2 R3 R4	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W	IC6 IC7	8-759-926-67 s IC SN74HC374NS 8-759-000-71 s IC MC14514BCP
R5 R6 R7 R8 R9	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W	01 02 03 04 05	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX
R10	1-216-025-00 s METAL, CHIP 100 5% 1/10W	Q6 Q7 Q8 Q9 Q10	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX
LP-49 BOARD		011 012	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX
Ref. No. or Q'ty		Q13 Q14 Q15	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX
1pc	1-631-833-11 o PRINTED CIRCUIT BOARD, LP-49	Q16	8-729-422-21 s TRANSISTOR UN2224-TX
D1	8-719-979-87 s DIODE LD-701MG	R1 R2	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q1 8-729-422-21 s TRANSISTOR UN2224-TX R1 1-216-025-00 s METAL, CHIP 100 5% 1/ R2 1-216-025-00 s METAL, CHIP 100 5% 1/	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R3 R4 R5	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
	1-210-025-00 S METAL, CRIP 100 5% 1/10W	R6 R7 R8 R9 R10	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
	•	R11 R12 R13 R14 R15	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
		R16 R17 R18 R19 R20	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
		R21 R22 R23 R24	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W

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(KY-157 BOARD)
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Ref. No.

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or Q'ty Part No.
                                                         SP Description
                        1-249-414-11 s CARBON 560 5% 1/4W
                       1-216-025-00 s METAL, CHIP 100 5% 1/10W
R61
R62
R63
R64
RV1
                       1-238-724-11 s VOLUME (JOY STICK TYPE) 10K
                       1-572-034-81 s SWITCH, PUSH (1 KEY)
1-572-034-91 s SWITCH, PUSH (1 KEY)
1-572-035-11 s SWITCH, PUSH (1 KEY)
1-572-035-21 s SWITCH, PUSH (1 KEY)
S2
S3
S4
                        1-572-035-31 s SWITCH, PUSH (1 KEY)
S5
                       1-572-034-41 s SWITCH, PUSH (1 KEY)
1-572-035-41 s SWITCH, PUSH (1 KEY)
1-572-035-51 s SWITCH, PUSH (1 KEY)
1-572-035-61 s SWITCH, PUSH (1 KEY)
1-572-035-81 s SWITCH, PUSH (1 KEY)
S6
S7
58
59
S10
                       1-572-035-71 s SWITCH, PUSH (1 KEY)
1-572-034-51 s SWITCH, PUSH (1 KEY)
1-572-031-11 s SWITCH, PUSH (1 KEY)
1-572-031-11 s SWITCH, PUSH (1 KEY)
1-572-031-11 s SWITCH, PUSH (1 KEY)
S11
S12
S13
S14
S15
                       1-572-031-11 s SWITCH, PUSH (1 KEY)
S16
S17
S18
S19
S20
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KY-158 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc	A-6259-375-A o MOUNTED CIRCUIT BOARD, KY-158 $$
C1 C10	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-286-31 s CAP, CERAMIC 220PF 10% 50V
CN1 CN2	1-506-489-11 s CONNECTOR, 10P, MALE 1-506-484-11 s CONNECTOR, 5P, MALE
D2	8-719-979-87 s DIODE LD-701MG 8-719-979-87 s DIODE LD-701MG 8-719-979-87 s DIODE LD-701MG 8-719-979-87 s DIODE LD-701MG
IC2 IC3 IC4	8-759-009-36 s IC MC14511BF 8-759-009-36 s IC MC14511BF 8-759-009-36 s IC MC14511BF 8-759-926-67 s IC SN74HC374NS 8-759-009-36 s IC MC14511BF
IC6 IC7 IC8	8-759-009-36 s IC MC14511BF 8-759-009-36 s IC MC14511BF 8-759-009-36 s IC MC14511BF
ND3 ND4	8-719-980-30 s DIODE GL-8D03D 8-719-980-30 s DIODE GL-8D03D 8-719-980-30 s DIODE GL-8D03D 8-719-980-30 s DIODE GL-8D03D 8-719-980-30 s DIODE GL-8D03D
ND6 ND7	8-719-980-30 s DIODE GL-8D03D 8-719-980-30 s DIODE GL-8D03D
02 03 04	8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-422-21 s TRANSISTOR UN2224-TX 8-729-100-66 s TRANSISTOR 2SC1623
Q6	8-729-100-66 s TRANSISTOR 2SC1623
R2 R3 R4	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R6 R7 R8 R9 R10	1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R11 R12 R13 R14 R15	1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R16 R17 R18 R19 R20	1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R21 R22 R23 R24 R25	1-216-041-00 s METAL, CHIP 470 5% 1/10W

(KY-158 BOARD)

Ref. No. or Q'ty Part No. SP Description 1-216-041-00 s METAL, CHIP 470 5% 1/10W R26 **R27 R28** R29 1-216-041-00 s METAL, CHIP 470 5% 1/10W R30 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W R32 1-216-041-00 S METAL, CHIP 470 5% 1/10W 1-216-043-00 S METAL, CHIP 560 5% 1/10W 1-216-041-00 S METAL, CHIP 470 5% 1/10W **R33 R34 R35** 1-216-041-00 s METAL, CHIP 470 5% 1/10W R36 **R37** R38 R39 1-216-041-00 s METAL, CHIP 470 5% 1/10W **R40** 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W **R41** R42 **R43 R44** 1-216-041-00 s METAL, CHIP 470 5% 1/10W **R45** 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W **R46 R47 R48** R49 **R50** 1-216-041-00 s METAL, CHIP 470 5% 1/10W **R51 R52 R53** R54 **R55 R56** 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W **R57 R58 R59** R60 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-249-414-11 s CARBON 560 5% 1/4W **R61** R62 R63 **R64** R70

EX-201 BOARD

Part No. SP Description
7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S
1-506-747-11 s CONNECTOR, DIN 64P, MALE
1-506-747-11 s CONNECTOR, DIN 64P, MALE
1-506-747-11 s CONNECTOR, DIN 64P, MALE
1-563-336-11 o HOUSING, 64P
1-563-336-11 o HOUSING, 64P
1-563-336-11 o HOUSING, 64P
1-563-340-11 o HOUSING, CONNECTOR (DIP) 64F
1-563-340-11 o HOUSING, CONNECTOR (DIP) 64F
1-563-340-11 o HOUSING, CONNECTOR (DIP) 64F

EX-236 BOARD

Ref. No.

or Q'ty Part No. SP Description

1pc 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S CN1 1-563-338-11 o HOUSING, CONNECTOR (DIP) 32P CN2 1-506-745-11 s PIN, DIN CONNECTOR (DIP) 32P

FRAME Ref. No. or Q'ty Part No. SP Description (to CN-330 board) 1-562-147-41 o HOUSING, 2P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-153-31 o HOUSING, 8P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN2 1-562-147-21 o HOUSING, 2P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN3 1-562-151-11 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-153-21 o HOUSING, 8P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN5 (to CN-332 board) 1-562-151-11 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN1 1-562-151-31 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN₂ 1-562-151-21 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN3 1-562-153-11 o HOUSING, 8P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-31 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN5 1-562-149-31 o HOUSING, 4P CN₆ 1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-11 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN7 1-562-151-21 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN8 CN9 1-562-149-11 o HOUSING, 4P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-149-11 o HOUSING, 4P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 **CN10** 1-562-149-11 o HOUSING, 4P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN11 CN12 1-562-153-31 o HOUSING, 8P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-148-31 o HOUSING, 3P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 **CN13** (to HN-105 board) 1-562-155-11 o HOUSING, 10P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 **CN19** 1-562-155-11 o HOUSING, 10P 1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN20 CN21 1-562-151-11 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30

(FRAME)		(FRAME)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
CN22	1-562-149-11 o HOUSING, 4P 1-564-026-11 o CONTACT, FEMALE, AMG26-30	(to HN-138 board)
CN23	1-562-152-11 o HOUSING, 7P 1-564-026-11 o CONTACT, FEMALE, AMG26-30	CN11 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN24	1-562-150-11 o HOUSING, 5P 1-564-026-11 o CONTACT, FEMALE, AMG26-30	CN12 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN25	1-562-155-31 o HOUSING, 10P	CN13 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN26	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30	CN14 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN27	1-562-149-31 o HOUSING, 4P	CN15 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN28	1-564-026-11 o CONTACT, FEMALE, AMG26-30	CN16 1-562-154-11 o HOUSING, 9P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN29	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-150-31 o HOUSING, 5P	CN17 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN30	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-155-21 o HOUSING, 10P	CN18 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN31	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-21 o HOUSING, 6P	CN19 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN32	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-149-21 o HOUSING, 4P	CN20 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN33	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-152-31 o HOUSING, 7P	CN21 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN34	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-150-21 o HOUSING, 5P	CN22 1-562-149-11 o HOUSING, 4P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN35	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-11 o HOUSING, 6P	CN23 1-562-149-21 o HOUSING, 2P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN36	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-147-11 o HOUSING, 2P	CN24 1-562-151-21 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN37	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-155-11 o HOUSING, 10P	CN25 1-562-151-21 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN38	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-147-41 o HOUSING, 2P	CN26 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN39	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-153-31 o HOUSING, 8P	CN27 1-562-151-31 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN40	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-147-21 o HOUSING, 2P	CN28 1-562-151-21 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN41	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-11 o HOUSING, 6P	CN29 1-562-151-11 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN45	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-151-11 o HOUSING, 6P	CN30 1-562-151-11 o HOUSING, 8P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
CN50	1-564-026-11 o CONTACT, FEMALE, AMG26-30 1-562-153-21 o HOUSING, 8P	CN31 1-562-151-11 o HOUSING, 8P 1-564-026-11 o CONTACT, FEMALE, AMG26-30
UNJU	1-564-026-11 o CONTACT, FEMALE, AMG26-30	CN32 1-562-151-11 o HOUSING, 6P
		1-564-026-11 o CONTACT, FEMALE, AMG26-30 CN33 1-562-151-31 o HOUSING, 6P
		1-564-026-11 o CONTACT, FEMALE, AMG26-30

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(FRAME)
 Ref. No.
 or Q'ty
            Part No.
                            SP Description
            1-562-151-41 o HOUSING, 6P
 CN34
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
            1-562-151-11 o HOUSING, 6P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN35
            1-562-153-11 o HOUSING, 8P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN36
             1-562-151-21 o HOUSING, 6P
 CN37
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
            1-562-151-21 o HOUSING, 6P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN38
            1-562-151-11 o HOUSING, 6P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN39
 CN40
             1-562-151-11 o HOUSING, 6P
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
            1-562-147-11 o HOUSING, 2P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN41
            1-562-147-31 o HOUSING, 2P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN42
 CN43
             1-562-148-31 o HOUSING, 3P
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
(to KY-155 board)
            1-562-627-11 o HOUSING, 13P
 CN2
             1-564-026-11 o CONTACT, FEMALE, AMG26-30
            1-562-154-11 o HOUSING, 9P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN3
            1-562-153-11 o HOUSING, 8P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN7
            1-562-151-11 o HOUSING, 6P
 CN8
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
            1-562-148-31 o HOUSING, 3P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN9
(to KY-157 board)
            1-562-155-11 o HOUSING, 10P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN1
            1-562-150-11 o HOUSING, 5P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN2
 CN3
            1-562-154-11 o HOUSING, 9P
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
            1-562-627-11 o HOUSING, 13P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN4
(to KY-158 board)
            1-562-155-11 o HOUSING, 10P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
 CN1
 CN2
            1-562-150-11 o HOUSING, 5P
            1-564-026-11 o CONTACT, FEMALE, AMG26-30
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(FRAME)
Ref. No.
or Q'ty Part No.
                        SP Description
(to LE-55 board)
           1-562-148-31 o HOUSING, 3P
1-564-026-11 o CONTACT, FEMALE, AMG26-30
(to SW REG)
           1-562-148-31 o HOUSING, 3P
CN1
           1-564-026-11 o CONTACT, FEMALE, AMG26-30
(to BRAKER)
        1-560-222-11 s INLET 3P
CN1
           1-562-210-11 o CONTACT, FEMALE AMG-8-22
4-601-466-11 s COVER, 3P INLET
           1-562-211-11 o HOUSING, 3P
CN101
           1-535-324-11 o TERMINAL, FASTEN
S1
        ⚠1-570-117-11 s SWITCH, SEESAW (AC POWER)
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PACKING MATERIALS & SUPPLIED ACCESSORIES